

AUTUMN 1959

# MATERIAL HANDLING ILLUSTRATED



**Roller Conveyors  
Fit Any Job-**

contents—page 2

**The Mass Circulation Magazine  
for the Material Handling Market**

SUPER RATE  
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MAINTENANCE MATERIALS  
300 CLEVELAND AVENUE  
CLEVELAND 18, OHIO

# IT'S A FACT!

this **NEW** ALLIS-CHALMERS 3,000 lb lift truck gives you

**LESS** where you want less...**MORE** where you want more

**LESS** length — only 73 in., less the forks.

**LESS** cost — Lowest in its class. It's a fact!

**LESS** maintenance — because of heavy-duty engine and bonus strength throughout.

**SHORTER** wheel base — only 42 in.

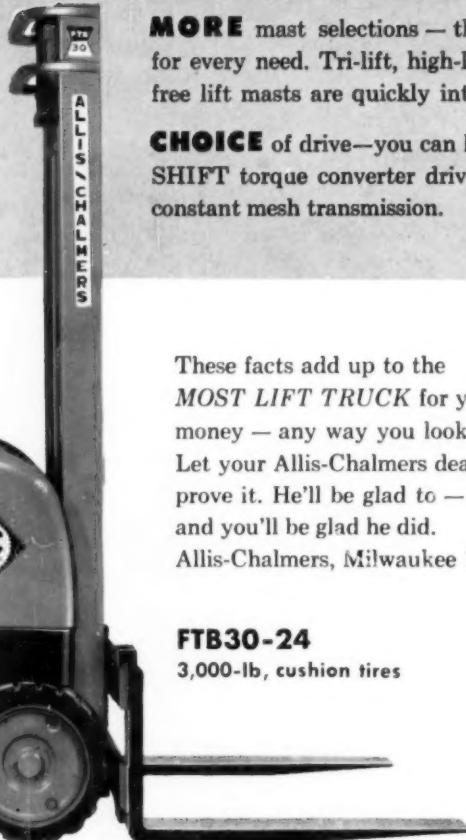
**TIGHTER** turning radius — only 67 in. outside. Most maneuverable truck by far.

Right-angle stacks in **NARROWER** aisles — 79 1/4 in. plus load length.

**MORE** stacking height — 131 1/2 in. with standard mast.

**MORE** mast selections — there's a mast for every need. Tri-lift, high-lift and extra-free lift masts are quickly interchangeable.

**CHOICE** of drive—you can have POWER SHIFT torque converter drive or standard constant mesh transmission.



**FTB30-24**  
3,000-lb, cushion tires

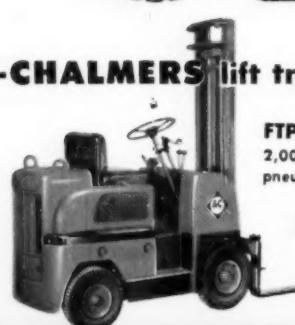
These facts add up to the  
**MOST LIFT TRUCK** for your  
money — any way you look at it.  
Let your Allis-Chalmers dealer  
prove it. He'll be glad to —  
and you'll be glad he did.

Allis-Chalmers, Milwaukee 1, Wis.

other new **ALLIS-CHALMERS** lift trucks, 2,000 - 3,000 lb



**FT20-24**  
2,000 lb  
cushion tires



**FTP20-24**  
2,000 lb  
pneumatic tires



**FB30-15**  
3,000 lb  
cushion tires

BH-123

## ALLIS-CHALMERS





**solid answer to your most demanding haulage problems**

TAKE A GOOD LOOK—for this Goodyear "solid" is an entirely new kind of tire. Called *Neothane*, it surpasses every known measure of industrial tire performance.

ITEM : it lasts as much as *four times* longer than conventional solid tires.

ITEM : it carries *two to four times* the load capacity of standard solids.

ITEM : it offers super resistance to broken glass, metal chips, sharp stones and other hazards which cause ordinary tires to fail.

ITEM : for all its toughness, it offers remarkable cushioning—“gives” with surface contours—won’t mark even finely finished floors—saves plant maintenance and cargo damage.

These Xtra-Service, Xtra-Capacity advantages are yours only with *Neothane*—the new Goodyear polyurethane that wears like iron, but has the quiet resilience of rubber.

**FOR MORE INFORMATION**  
on this amazing new tire—and how it can save for you—write Goodyear, Industrial Tire Sales, Akron 16, Ohio.



INDUSTRIAL TIRES BY

# GOOD YEAR

MORE TONS ARE HAULED ON GOODYEAR TRUCK TIRES THAN ON ANY OTHER KIND  
*Circle No. 5 on Reader Service Card*

# In Ramps...

WHAT'S THE  
MEANING OF  
*Lifetime?*

Exactly what it says! EIW Ramps are built of STEEL for guaranteed STRENGTH and DURABILITY. Since 1907, EIW products have been engineered by materials handling experts to give safe, long, trouble free service.

## E-I-W RAMPS FOR EVERY PURPOSE



### "ONE MAN" BRIDGE RAMP

15,000 lbs. capacity. Use between railroad car and platform. Transported and positioned by fork truck.

### "STAR" HAND TRUCK RAMP

2,000 lbs. capacity.

### "MASTER" MEDIUM HAND TRUCK RAMP

4,000 lbs. capacity.

### "REFRIGERATOR" CAR RAMP

15,000 lbs. capacity.



### MOTOR and TRAILER TRUCK RAMPS

For use with fork and pallet type trucks at platform or dock. Capacities up to 15,000 lbs.



### NEW! YARD RAMP

A safe, steel "bridge on wheels." Easily rolled to any part of yard. 15,000 lbs. capacity.

Write for new Literature  
and Specifications

## ELIZABETH IRON WORKS INC.

Materials Handling Specialists, Steel Fabricators, SINCE 1907

514 Green Lane, Union, N. J.

Circle No. 6 on Reader Service Card

# MATERIAL HANDLING ILLUSTRATED

VOL. 8 No. 4

AUTUMN, 1959



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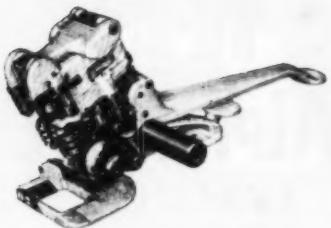
### MORE FOR YOU . . .

Next year, MATERIAL HANDLING ILLUSTRATED will serve you better, more often. You will receive MHI six times a year during 1960 instead of quarterly.

This is because so many of you have shown a greatly increased interest in material handling — your use of the reader service card bound into each issue has almost doubled in the past two years — and because new developments are coming along at a rate too fast to cover in only four issues a year.

Our successful format will be unchanged and the staff will remain the same. Watch for us every other month starting in February.

The Editors



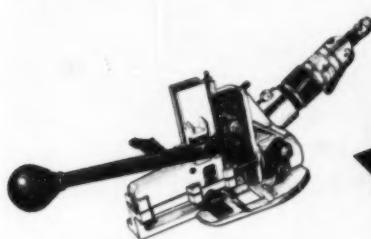
The only one-hand  
strapping tools  
**SFC Series**



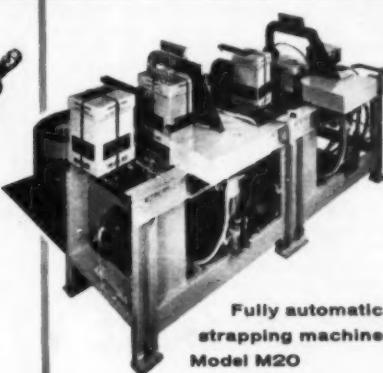
Complete line of  
air power tensioners  
**PN Series**



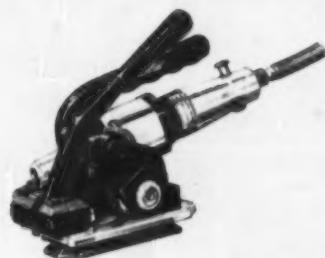
**Power strap feeders  
Model PSF**



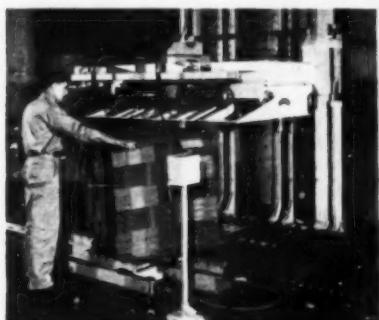
Air power portable  
strapping machines  
**AP Series**



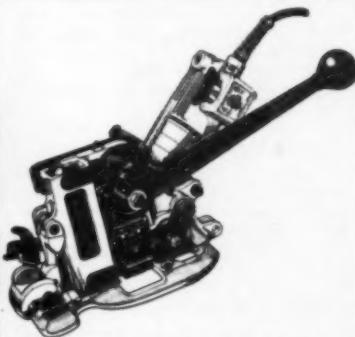
Fully automatic  
strapping machines  
**Model M20**



The first air power feed wheel  
tensioner for heavy duty strapping  
**FN Series**



First compression strapping  
machines with built-in turntable  
for 2-way strapping. **CSF Series**



Electric portable strapping  
machines. **AE Series**



**N Series**  
Heavy-duty air  
power sealers

## 9 ways to new savings

Binding things together with steel strapping is a low cost way to eliminate individual handlings, save space, and prevent damage. These nine machines—part of the most complete line of equipment in the steel strapping in-

dustry—create new ways to save with strapping. Signode will be glad to help you select the right equipment and devise methods to make the most of it. There's a Signode man near you. Call him today, or write:



First in steel strapping

**SIGNODE STEEL STRAPPING CO.**

2668 N. Western Avenue, Chicago 47, Illinois

Offices Coast to Coast. Foreign Subsidiaries and Distributors World-Wide

In Canada: Canadian Steel Strapping Co., Ltd., Montreal • Toronto

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**FOR EVERY JOB REQUIREMENT**

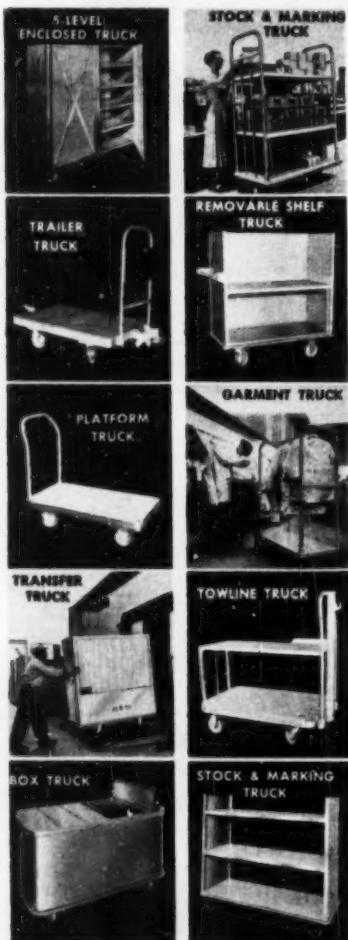
# MAGLINER 4-WHEEL TRUCKS

• Magnesium • Aluminum

*Lightweight!*

*Maneuverable!*

*Ruggedly Built!*



**WHICH OF THESE MAGLINER TRUCKS WILL SAVE YOU MONEY?** Lightweight Magliners for heavyweight jobs—that's the trend! Plants . . . warehouses . . . stores . . . delivery work—whatever the application . . . costs go down with Magliners on the job! Check into the money-saving advantages of Magliner 4-Wheel Trucks for your operation . . . get a Magline quotation before you buy.

Write for illustrated bulletin on any of above models



MAGLINE INC. • P. O. Box 3310 • Pinconning, Mich.  
Canadian Factory: Magline of Canada, Ltd., Barrie, Ontario

Circle No. 8 on Reader Service Card

## HANDLING HIGHLIGHTS

### Solid Rubber Tires

The Monarch Rubber Co. says that to cut solid tire replacement costs and to increase lift truck performance, get the right tire for the job. Avoid standing loads and overloads, keep floors clear of debris, and inspect tires daily. Literature available.

Circle No. 66 on Reader Service Card

### In-The-Floor Conveyor

Here's a conveyor that tows bulky 1000 lb. loads. Write The American MonoRail Co. for Catalog CD-B. Metal floor plates cover 480 foot conveyor, except for a narrow slot in which the tow bar travels.

Circle No. 41 on Reader Service Card

### Electric Hoists

Here's your opportunity to slash lifting and handling costs. The Chisholm-Moore Hoist Division of Columbus McKinnon Chain Corp. asks you to put its new Lodestar electric hoists to work where their increased speeds and capacity match your maximum requirements.

Circle No. 54 on Reader Service Card

### Steel Shelving

Iron-Grip steel shelving has a stud that eliminates clips, nuts, bolts, and tools. Equipto will send you its complete reference manual No. 485.

Circle No. 3 on Reader Service Card

### Power-Mates

C & D Batteries, Inc. will send you Bulletin AR-100 on its AutoReg Silicon chargers and Bulletin IT-527 which describes its Slyver-Clad C & D Batteries.

Circle No. 75 on Reader Service Card

### Cable Conveyors

Bulletin 40A tells you how you can save floor space and cut maintenance costs by using E. W. Buschman Co.'s Universal Bush-Lock cable conveyors.

Circle No. 4 on Reader Service Card

### Overhead Conveyor System

For helpful suggestions and applications that show how its overhead conveyor system can work for you, write Chainveyor Corp. for a special planning folder.

Circle No. 24 on Reader Service Card

### Two-Way Power

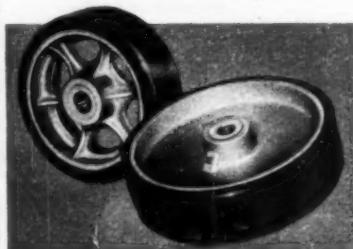
Combination of Gardner-Denver hoist and Hoistractor can add economical push-pull power to your handling. They spot loads easily and safely. Bulletin 86-1 (hoists) and 87-1 (Hoistractors) available.

Circle No. 43 on Reader Service Card

Continued on page 22

# NEW ALBION'S AlTHANE\* WHEELS

\*POLYURETHANE



### WEAR LIKE STEEL... PROTECT LIKE RUBBER

Truly a *wonder wheel* for all rugged industrial applications where high capacity and floor protection is a "must". Albion's amazing new AlTHANE wheels are conservatively rated for 5 times the service life of rubber and they're extremely resistant to abrasives, have load capacities of steel wheels, resist a permanent "set" under static loads and are impervious to practically all chemicals, solvents, etc.

Better yet . . . AlTHANE wheels—or complete casters, are immediately available from stock in 6" to 12" wheel diameters with clean, machine-faced steel hubs and roller bearings.

So—if you want the quiet resiliency and protection of rubber, the capacity and lasting durability of steel, plus a new wheel economy . . . you'd better specify Albion's AlTHANE.

### Remember

AlTHANE  
for both wheels  
and complete  
casters!



Write today for your free copy of the new AlTHANE wheel and caster folder.

**ALBION INDUSTRIES, INC.**



ALBION, MICHIGAN

Circle No. 9 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

# new!

## AIM BRAND slotted angle



**faster-framing • precision-quality • 100% reusable**

This versatile new Acme Steel framing metal brings amazing ease and economy to building durable structures and equipment. Its pattern makes it ideal. Scientifically spaced slot-and-round-hole pattern simplifies assembly. Friction-Joints can be made by bolting through slots when speed and convenience are most important. For maximum strength, bolting through round

holes forms a Lock-Joint that just won't budge. Structural bolts with a 2000-pound safe load capacity can be applied with a hand or power wrench. Just plan, measure, cut and bolt.

AIM Brand Slotted Angle is cold-rolled galvanized steel for dependable strength and rigidity. 10 or 12 foot lengths come in packages of 10 pieces with bolts and nuts.

Available in two sizes: Standard 225-80 ( $2\frac{1}{4}'' \times 1\frac{1}{2}'' \times .080''$ ) and Heavy-duty 300-104 ( $3'' \times 1\frac{1}{2}'' \times .104''$ ).

**FREE!** Get ideas from the AIM Brand Slotted Angle brochure for fixtures and equipment you can build with less material, fewer man-hours. Write Dept. FED-109, Fabricated Materials Division, Acme Steel Company, Chicago 27, Ill.



**AIM Brand Slotted Angle**



Circle No. 10 on Reader Service Card

# WHAT'S NEW IN USEFUL LITERATURE

## Low Fork Lift

Three battery powered, low silhouette fork lift trucks have been added to the "Clarklift" line.



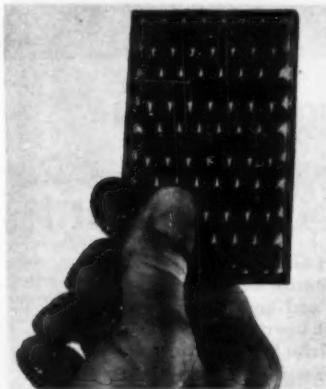
*Circle No. 125 on Reader Service Card*

They are capable of double stacking freight in truck trailers. They have a seat height of 34 inches and an overall height of 71 inches to the top of the overhead guard. The trucks, called the ECLS series, are available in capacities of 2000, 3000, and 4000 pounds. Free lift in the uprights permits in-truck stacking as high as 51 inches in a 72 inch high trailer.

*Clark Equipment Co.,  
Industrial Truck Div.*

## Sling Handles Gently

You can get Gripper Slings with a clear polyvinylchloride covering to keep the load surfaces



*Circle No. 126 on Reader Service Card*

free from damage. The clear PVC coating allows you to inspect the metal-mesh fabric inside. The

covered slings can be used in corrosive acids (chromic, hydrochloric, hydrofluoric) and caustics (ammonium hydroxide, sodium hydroxide, copper sulphate).

*The Cambridge Wire Cloth Co.*

bag safely by squeezing it between a sandwich of two belt conveyors. The top belt adjusts up and down for varying size bags. Belt widths available from 8 to 24 inches.

*New London Engineering Co.*

## Keeps Bags Free of Damage

This two-wheel hand truck is designed for easier and safer handling of bagged products. Its



*Circle No. 127 on Reader Service Card*

nose plate is now made with aluminum for lighter weight and has a non-slip surface. Its rounded axle ends have snaprings in place of cotter pins to prevent damage to bags. All edges and corners of load bearing surfaces are smoothly rounded.

*Nutting Truck and Caster Co.*

## Flattened Bags Store Better

You can flatten bags as they come from the filling machine to insure firm, safe stacking and re-

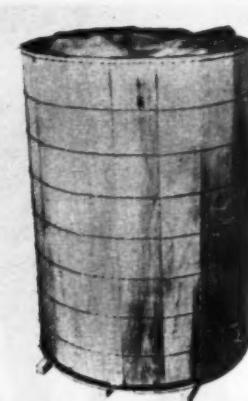


*Circle No. 128 on Reader Service Card*

duce the amount of space needed to store them. Model BB12Ex8' Type 32 bag flattener flattens each

## The Right Shape for Bulk

Free-flowing materials tend to make any container assume a cylindrical shape, causing flat-sided



*Circle No. 129 on Reader Service Card*

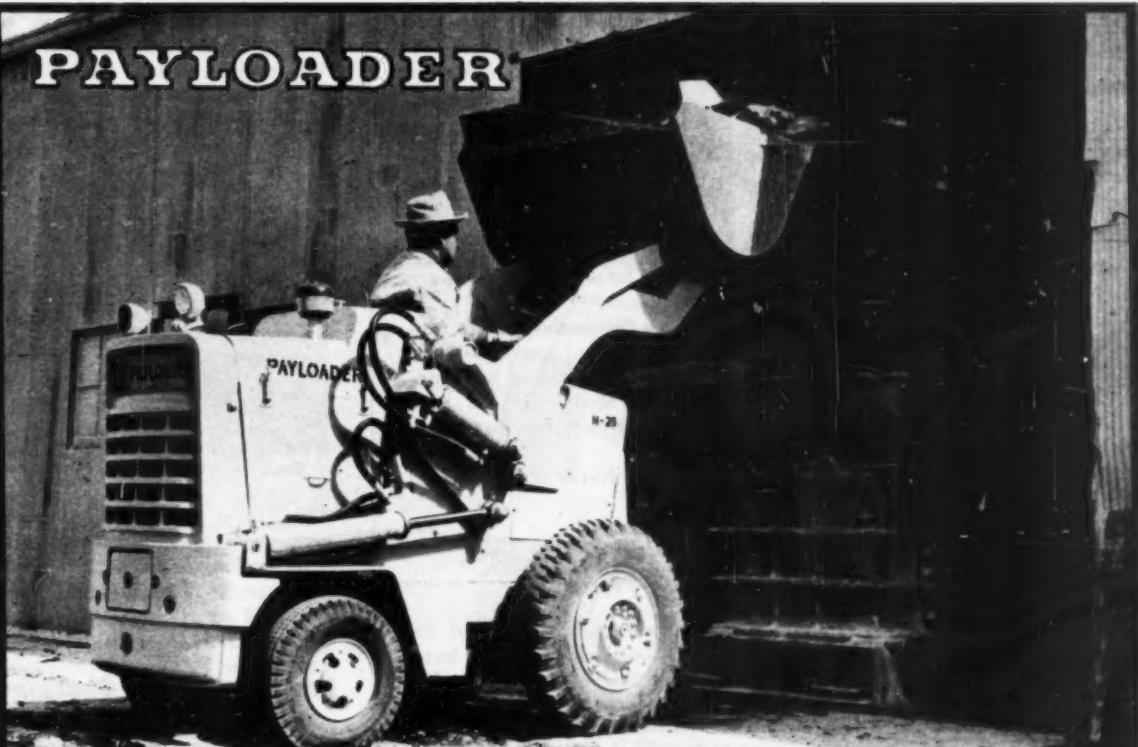
containers to bulge. That's why Cylindra-Pak Generalift wire-bound pallet boxes are ideal for bulk loads. The binding wires contain the outward thrust, eliminating bulging. The containers actually get stronger as they're filled. They ship and store flat, but are easy to assemble. They're puncture-proof, and held together by one steel strap. Solid sides or open, expendable or reusable. They come in 36" or 42½" diameters, any height up to 72".

*General Box Co.*

## Safety in Loading

MagnaLum dock plates have safety-tread surfaces for maximum traction, minimizing injuries. Designed for truck loading, they're lightweight, easily handled by one man. Standard models are 48" wide, from 24" to 60" long. Special sizes available. Load rat-

# PAYLOADER



## "faster . . . operates easier"

### PAYLOADER® units do many jobs:

- Unload railcars
- Load trucks and cars
- Feed mullers, crushers
- Charge hoppers, bins,  
conveyors
- Build stockpiles
- Spot and shift rail cars
- Push trucks

### Indoors or outdoors

. . . wherever you have bulk materials to move . . . there's a "PAYLOADER" size and type to do the job . . . carry capacities from 2,000 to 12,000 lbs. Ask your Hough Distributor for a demonstration.

Standard Fire Brick Co., Pueblo, Colorado replaced a larger tractor-shovel with a model H-25 "PAYLOADER" feeding a jaw crusher from piles of silica rock, cull brick and two grades of clay. It is the newest of seven "PAYLOADER" units that Standard has purchased through the years including a large 4-wheel-drive type that handles heavier loading and mixing work.

The many superior features of the new H-25 benefit both the operator and the management. As operator Jess Rodriguez puts it, "My new loader is faster, easier to get around among the stockpiles and to keep ahead of the crusher. The bucket control is great too . . . makes clean hopper-loading simple."

**With 2,500 lb. carry capacity,** only 6 ft. turning radius and easy power-steering, the Model H-25 is the most concentrated package of tractor-shovel productivity in its size range. Power-shift transmission with two speeds forward *and* reverse, power-transfer "no-spin" differential, and 4,500 lbs. of bucket breakout force are other outstanding features that speed production and reduce operator effort.

THE FRANK G. HOUGH CO.  
929 Sunnyside Ave., Libertyville, Ill.

Send data on complete "PAYLOADER" line and attachments

Name \_\_\_\_\_  
Title \_\_\_\_\_  
Company \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_

10-A-3

Circle No. 11 on Reader Service Card

# HOUGH

THE FRANK G. HOUGH CO.  
LIBERTYVILLE, ILLINOIS  
SUBSIDIARY — INTERNATIONAL HARVESTER COMPANY

## WHAT'S NEW IN EQUIPMENT

ings from 1,000 to 5,000 lbs axle load. Additional features: positive position stops lock board between



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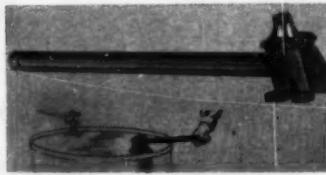
dock and vehicle; beveled edges for smooth crossing; edges have bright yellow safety markings.

*Magline Inc.*

### A Wrench for Any Drum

The Morse drum plug wrench will fit almost any popular drums on the market. Seven projections and five slots conform to almost

any bung made. It's light, well balanced, easy to use. A 16' handle gives enough leverage to



Circle No. 140 on Reader Service Card

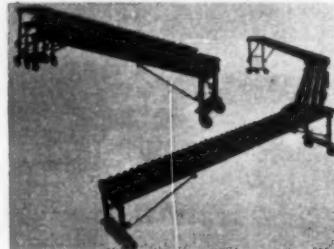
open even the toughest bungs. Model 61 is made of special steel alloy, for drums holding non-volatile fluids. Model 61M is non-sparking bronze for hazardous areas.

*Morse Mfg. Co., Inc.*

### Conveyor, Telescopes, Swings Pivots

This conveyor can extend its three 18-inch wide sections from 11'10" to 29'6" in minutes. It also pivots and swings—inside trucks or railroad cars, or around obstacles. At the discharge end, it will service any point from straight

to approximately 90 degrees to left or right. Each conveyor section consists of four paired "Live Rails" with a wheel pattern that produces 32 wheels per foot of length, handles up to 60 pounds a foot. This Model No. T-4P-18-



Circle No. 141 on Reader Service Card

310 "Pivot Swing" telescoping conveyor will handle all packages 9 inches long or longer, provided they can be handled on a conventional wheel conveyor.

*The Alvey-Ferguson Co.*

### Portable Battery Chargers

You can wheel these battery chargers on the floor or mount them on a wall. They will charge

## GRIPPER® woven wire SLINGS

### here's GENTLENESS for any lifting job

With a Gripper Sling, even delicate motor parts, polished stock or thin walled tubing can be moved without load damage. The smooth, broad bearing surface doesn't cut or score the load. Spiral wire construction gives the Gripper Sling complete flexibility . . . allows the sling to wrap around the load and hold it in a firm, but gentle, grip. Gripper Slings are extra safe because there's nothing to snap or tear suddenly and drop the load.

Gripper Slings, protected to meet load specifications, are available in standard lengths and widths with capacities up to 100,000 lbs. Special sizes, offsets or Neoprene or PVC covered slings available. Write for FREE CATALOG and name of your nearest materials handling distributor.



**The Cambridge  
Wire Cloth Co.**

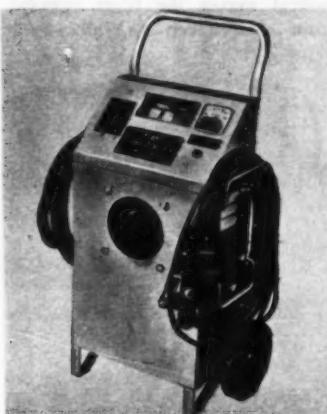
Department AF • Cambridge 10, Md.



Circle No. 12 on Reader Service Card

**MATERIAL HANDLING ILLUSTRATED**

the entire battery, any one cell, or any group of cells within the battery up to the rated capacity of



Circle No. 196 on Reader Service Card

the charger. The chargers, called Variable Voltage Rectifiers (VVR), are equipped with silicon rectifying diodes for use on batteries up to 32 lead-acid cells or 50 alkaline cells.

*Exide Industrial Div.,  
The Electric Storage Battery Co.*

#### No Flat Tires

This laminated tire is now produced in a nylon premium model.



Circle No. 197 on Reader Service Card

rubber-with-nylon assures easier riding and more even wear. You can ride over jagged stone, brick, metal or glass with this tire and have no worries about puncture.

*Nat'l Tire Co.*

#### Strapping Tool Aid

A traction dynamometer is part of a method of setting clutch tension in steel strapping tools. The dynamometer is anchored to one end of a sturdy table. A length of

## Cost-cutting FACTS & IDEAS worth thousands of dollars!



Here . . . at your fingertips . . . are the dollar-and-space-saving facts about handling unit loads in narrow aisles. Learn how you can store more goods in your present warehouse. Increase capacity as much as 50% . . . make new floor space more productive with narrow aisles. This new 24 page reference book contains complete specifications of Raymond hydraulic and electric pallet handling trucks for every size and type of operation. Profusely illustrated. Send for your FREE copy today!



#### The RAYMOND CORPORATION

30175 Madison St., Greene, N. Y.

NAME	TITLE
COMPANY	
STREET	
CITY	STATE

Circle No. 13 on Reader Service Card

## WHAT'S NEW IN EQUIPMENT

steel strapping is secured to the dynamometer and anchored to a grip at the opposite end of the table. The strapping tool is then applied and cranked until the dynamometer reading agrees with



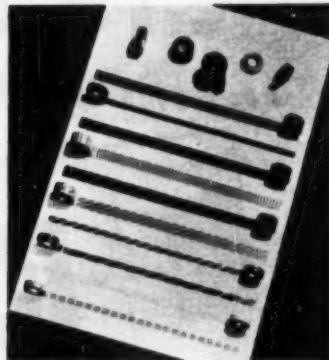
Circle No. 142 on Reader Service Card

a predetermined clutch load. The clutch is then permanently set.

*W. C. Dillon & Co., Inc.*

### Layout Made Easy

Specially marked pressure sensitive tapes make it easy for anyone to make charts, layouts, etc.



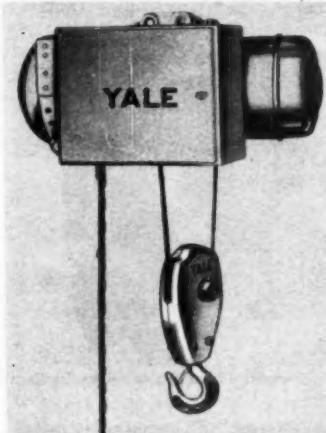
Circle No. 143 on Reader Service Card

with a professional look. Part of the Graph-A-Plan system of charting materials, they come in 14 solid colors and 10 patterns in choice of 4 colors, for a total of 54 different tapes. Solid tapes range from  $\frac{1}{64}$ " to 2" wide, patterns from  $\frac{1}{32}$ " to 2" wide.

*Labelon Tape Co.*

### Hoist Control Babies Load

The Selectron AC electric hoist control makes the hoist operate from slow creep to full speed



Circle No. 144 on Reader Service Card

under both no load and full load at near absolutely constant speeds. Manufacturer says this moderate cost development gives hoisting

*Continued on page 26*

### A COMPLETE LINE OF ROLLER CONVEYERS ENGINEERED AND STANDARDIZED BY

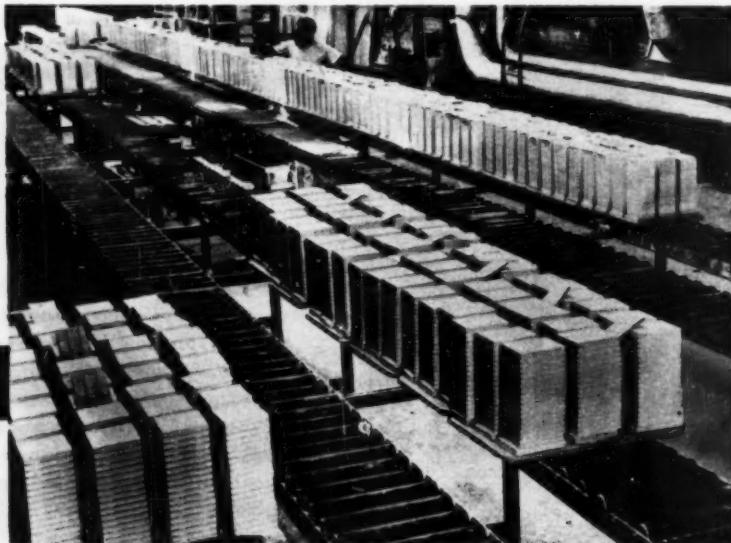
**MATHEWS**

The Mathews line of roller conveyor is complete, with rollers ranging from  $1\frac{1}{2}$ " to  $6\frac{1}{2}$ " in diameter, and with capacities from 60 lbs. to 13,000 lbs. High quality ball bearings are used throughout.

Accessories such as turntables, hinges and switches are available from stock.

A full line of couplings and supports makes the installation of Mathews Roller Conveyor lines convenient and easy.

*For latest information write for Catalog 158*



#### MATHEWS CONVEYER COMPANY

GENERAL OFFICES . . . . . ELLWOOD CITY, PENNSYLVANIA  
PACIFIC COAST DIV. . . . . MATHEWS CONVEYER COMPANY WEST COAST,  
SAN CARLOS, CALIFORNIA  
CANADIAN DIVISION . . . . . MATHEWS CONVEYER COMPANY, LTD., PORT HOPE,  
ONTARIO.



**MATHEWS**  
*Over Fifty Years of Leadership in Mechanized Handling*

Circle No. 14 on Reader Service Card

# Available NOW for the FIRST TIME



# STANDARD SIZE 60 SERIES

PALMER-SHILE Adjustable

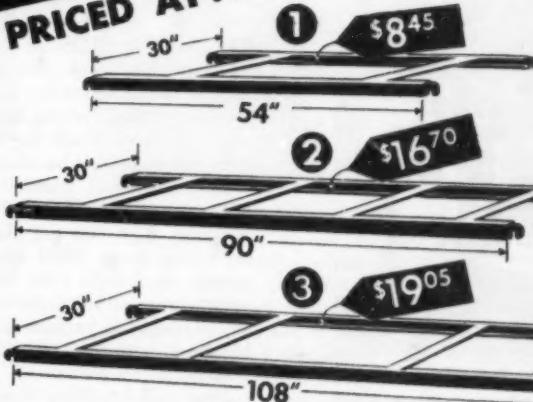
# STORAGE RACKS

Pat. App. For

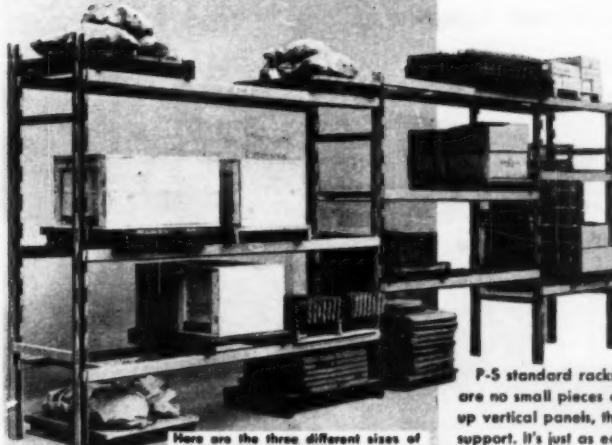
★  
CAPACITY  
5000 lbs.  
per shelf

1 STANDARD SIZE PANEL

PRICED AT... 3 STANDARD SIZES OF SHELVES



★ IMMEDIATE DELIVERY FROM STOCK ★



Here are the three different sizes of standard shelving, adjusted to various storage openings. Note flush top of racks joined at the right.

Why wait when you have storage problems that require fast action to save you time and money? Order Palmer-Shile new low cost P-S 60 Series standard racks. Shipment will be made to you from stock immediately after your order is received.

These new standard racks can be used for almost any plant or warehouse application, to store any kind of materials or merchandise up to capacities which cover usual storage needs.

P-S 60 racks are available in four pieces: A. The standard vertical panel, 98" high, 30" deep, 2½" wide with shelves adjustable on 7" centers. B. Standard shelving of three different lengths, 54", 90" and 108", each 30" deep, to choose from to fit your specific storage requirements. Top shelf can be flush for use along entire rack surface to store items of various dimensions.

P-S standard racks can be set up by hand within a few minutes. There are no small pieces and no bolting or welding is required. You simply set up vertical panels, then snap in the adjustable shelves, for rigid, no-sway support. It's just as easy as that!

Racks are of sturdy channel steel construction for use with pallets, skids, boxes, or barrels. They can also be custom built to your specifications.



DESIGNED AND MANUFACTURED BY

*Palmer-Shile Co.*

16047 FULLERTON AVE., DETROIT 27, MICH.  
Export Division — 75 West Street, New York 6, N.Y.



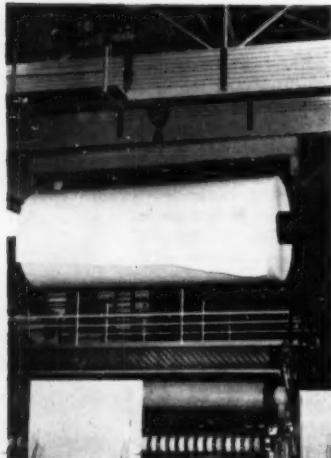
Circle No. 100 on Reader Service Card

**BELT CONVEYOR** carries cloth rolls horizontally through production. A roll like this is too flexible for many other types of equipment to handle easily.



Circle No. 101 on Reader Service Card

**REVOLVING PAPER ROLL CLAMP** picks up a roll horizontally, carries it from storage to production.



Circle No. 102 on Reader Service Card

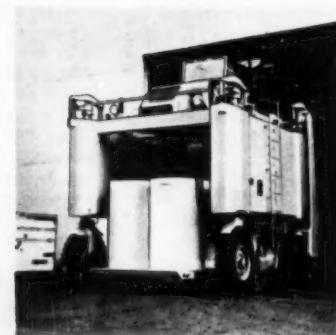
**OVERHEAD CRANE** lifts paper roll from the processing machine.

**T**HREE KINDS of handling equipment are used to move and store paper rolls: industrial trucks, overhead cranes and hoists, and conveyors. Each has features that suit it to roll handling.

The industrial truck equipped with a roll handling clamp is versatile. You can get clamps in capacities from 2000 to 10,000 pounds to handle rolls with diameters from 10 to 60 inches. They are available in various arm combinations with 90-, 180-, 270-, or 360-degree rotations.

Most roll handling attachments can be placed on a fork lift truck with few alterations. Quick-removable attachments make it possible to switch the clamp with forks or other handling devices without difficulty.

Conveyors are used to handle



Circle No. 103 on Reader Service Card

**STRADDLE CARRIER** has a special bolster to carry paper rolls.

## 5 Ways to Handle Rolls

paper rolls — mostly horizontally, but sometimes vertically too. Often the conveyor combines with a roll handling truck or overhead hoist to make a complete system. Both belt and roller conveyors are used in these applications.

When you handle paper rolls with overhead hoists or cranes, you usually use a hand operated or electric hoist with conventional single hook. Or you might use a twin hook hoist. When a single hook hoist is employed, a spreader bar is often used between the roll and the hoist hook. This is a beam with an eye-bolt arrangement in the center for the hoist hook and chains that drop down from the ends to engage the shaft of the roll. This kind of bar provides the three-point suspension necessary for picking up the roll. ▲▲



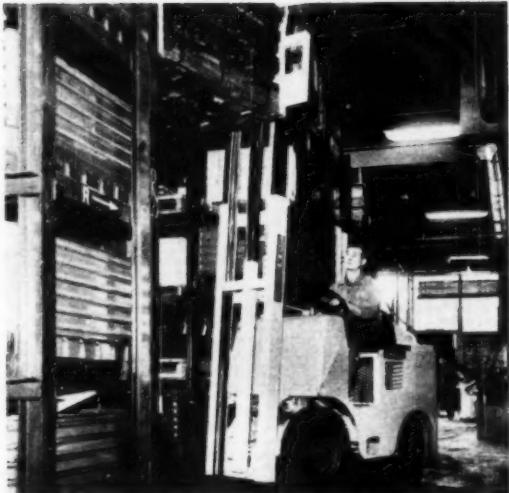
Circle No. 104 on Reader Service Card

**TWIN RAMS** are mounted on a fork truck, pick up two rolls at once.

B.F.Goodrich



# News from your ANALYSIS MAN



## 4 reasons for choosing All-Purpose pneumatic tires

If you use pneumatic tires on your materials handling equipment, consider these 4 facts: (1) B.F.Goodrich All-Purpose pneumatic tires give extra traction on all hauling surfaces. (2) They protect floors from damage. (3) Operator fatigue and equipment maintenance are reduced. (4) All-Purpose tires are stronger, more stable, have hundreds of gripping edges. Ask your B.F.Goodrich Tire and Wheel Analysis man if this isn't the kind of tire you should be using.

### I can save you up to 50% on industrial tire costs



All-Purpose and "wired" tires are just 2 examples of the specialized industrial tires B.F.Goodrich makes. As your trained Tire and Wheel Analysis man, I know which tires are best for you. My survey of your operation costs nothing—can pay big dividends in money saved on tire costs. Mail the coupon today for my FREE services and tire recommendations.

Specify B.F.Goodrich tires when ordering new equipment.

The wire in these tires  
saves concrete pipe company  
200% on tire costs



Scraps of reinforcing rods used in pipe construction once caused terrific tire trouble for this Toledo, Ohio, concern. Then the B.F.Goodrich Tire and Wheel Analysis man suggested a switch to new "wired" tires—tires made with a special shield of steel wire under the tread to guard against punctures and blowouts.

Result: Tires once lasted only 6 months, but these B.F.Goodrich "wired" tires have been in constant use for 2½ years *without repairs*. Tire costs have been cut 200%. This is typical of the work a B.F.Goodrich Tire and Wheel Analysis man does. What can he do for you?



Smileage!

*The B.F.Goodrich Company  
Department TW-795, Akron 18, Ohio*

Please send me information on All-Purpose tires.  
 Please send me information on "wired" pneumatic tires.  
 Please have the Tire and Wheel Analysis man call.

NAME \_\_\_\_\_

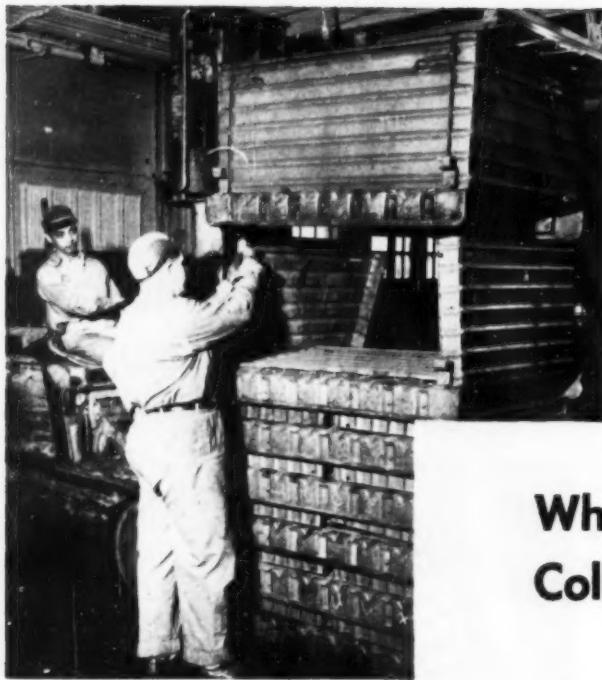
COMPANY \_\_\_\_\_

STREET \_\_\_\_\_

CITY \_\_\_\_\_ ZONE \_\_\_\_\_ STATE \_\_\_\_\_

# B.F.Goodrich industrial tires

Circle No. 16 on Reader Service Card



**COLLAPSIBLE METAL BOXES** in automotive parts plant. The manufacturer provides them to its suppliers so all materials arrive in standard boxes.

Circle No. 105 on Reader Service Card

## Why Use Collapsible Containers?

**Y**OU SAVE TWO WAYS when you use collapsible containers: in storage space and in return freight costs.

There's a collapsible container to suit almost any product. They come in virtually any size, shape, and material. They may be palletized or have other handling provisions like lugs or crane hooks. You can use them as in-plant containers, shipping containers, or both. Either way, you save because of their ability to fold down to a fraction of their original height when not in use.

Metal collapsibles are strong, handle and stack well, hold heavy

loads, and last for years with little or no maintenance. Pressed steel are probably the strongest, but they're usually too heavy for shipping; return freight is too high.

Wire mesh, wood or wirebound are your best bet if you want to use collapsibles for shipping. They're light, so return freight is cheap.

Wire mesh boxes, like pressed steel, are strong and maintenance free. They have the added advantage that you can easily see what's inside. The mesh may be fine enough to hold even small nuts and bolts.

Wire or wirebound are also good

for shipping. Properly used they'll last for several trips. Like wire mesh, they come in many styles, with drop front, dividers for compartments, casters, padlocks, etc.

Whatever collapsible containers you use, don't overlook new ways to use them. Make them work for you as often as possible; they're not doing you any good in storage. See if you can use them as in-process containers as well as for shipping and storage. Often a company will provide all its suppliers with collapsibles, so that all incoming materials arrive in the same containers, to fit right into the handling system. ▲▲



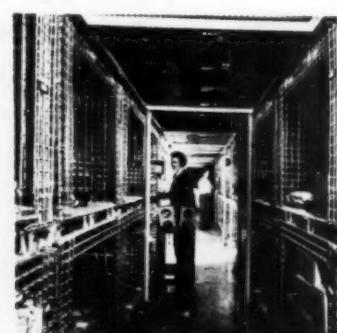
Circle No. 106 on Reader Service Card

**WIREBOUNDS** come in all sizes, styles of collapsibles, for any type product. This one holds heavy rolls of easy-to-damage aluminum foil.



Circle No. 107 on Reader Service Card

**LARGE STORAGE BOXES** consist of separate panels held together by corner braces (inset). They come with other types of hardware too.



Circle No. 108 on Reader Service Card

**WIRE MESH CONTAINERS** have door in front, dividers for storage. Contents are easy to see. There's another row over catwalk.

# Rapistan®

## couples ideas and products to solve handling problems

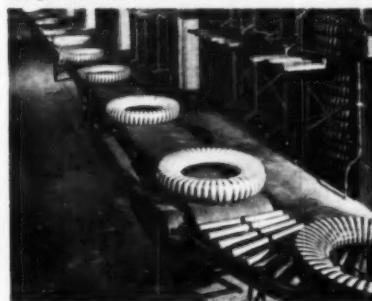
Rapistan conveyors smooth and speed the flow of goods and protect



**Flow-Rack**—Flows stock into reach, saves aisle space. Choice of gravity, wheel, roller or strip conveyor. Easily extended or adapted to items stored. Positions goods for fast order selection.



**Rapid-Wheel Gravity Conveyor**—Straight, curved and spur sections; portable or permanent; varied wheel patterns; steel, galvanized or lightweight aluminum.

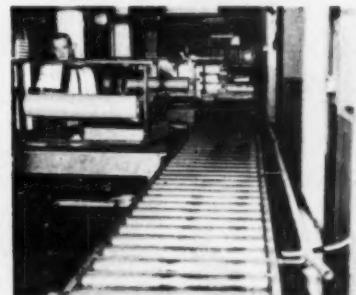


**Heavy duty Horizontal Belt Conveyor**—A permanently-installed unit for smooth, fast horizontal flow of heavy units, cartons, boxes, parts, crates, etc. Variety of widths and lengths.

profits while they save time, ease handling problems and maintain volume production. Whether it's retailing, manufacturing or wholesaling, business is making greater use of the flexibility and efficiency of Rapistan power units, gravity units and accessories. Rapistan combines money-saving ideas, outstanding quality of design, materials and workmanship with practical engineering of standard units.



**Rapistan Inter-Floor Belt Conveyors**—Relieve elevator congestion, eliminate heavy lifting and carrying with Floor-Veyor and Floor-Veyor, Jr. models for interfloor movement.



**Rapistan Live-Roller Conveyor**—Permits halting goods on conveyor for weighing, etc. Eases accumulation or sweep-off along the line. Exclusive pop-out safety rollers protect personnel.



**Rapistan Industrial Casters and Wheels**—Light to heavy duty, cold forged, steel forged, stamped steel; steel, rubber, Durastan wheels; swivel or rigid assemblies.

## New Idea Handbook Explains Coordinated Materials Handling

Walk through 70 actual installations as you leaf through this new handbook of materials handling ideas. See how combined use of many Rapistan conveyors is compounding materials handling savings in time, space and manpower. Write for your copy.



**Aluminum Portable Belt Conveyor**—Lightweight, adjustable, easily moved, stores vertically in small space. May be used horizontally. Perfect for stacking operations.



**Rapistan Magnetic Parts Conveyor**—Moves ferrous metal parts or scrap iron. Adjustable pitch. Operates in tight spaces at inclines up to 72°. Dumps to bin or hopper.



**Rapistan A-P-C (Adjustable Pressure Control) Conveyor**—Limits build-up of carton line pressure, operates on very low power requirements, spaces cartons automatically for safe, economical movement.

## FREE CATALOGS

Write for prices and specifications  
on any item shown in this ad.

# Rapistan®

Materials Handling Ideas

Circle No. 17 on Reader Service Card

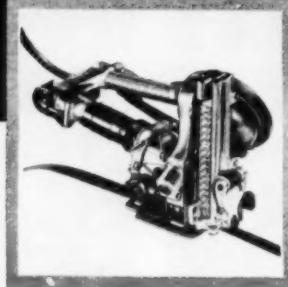
AUTUMN 1959

The RAPIDS-STANDARD CO., Inc.  
581 Rapistan Bldg.  
Grand Rapids 2, Michigan

eat peas  
with a knife?

...YOU'RE  
BETTER  
OFF WHEN  
THE RIGHT  
TOOL IS  
ON THE JOB

One of the complete line  
of Acme Steel powered  
strapping tools—the Steel-  
strapper (A4) tensions,  
seals, cuts . . . all with  
power.



**USE ACME STEEL STRAPPING, TOOLS  
AND IDEAS**—to unitize, close, bundle, reinforce, bale, tie, brace carloads—help solve your handling problem simply and economically. Write Dept. FEZ-89A, Acme Steel Products Division, Acme Steel Company, Chicago 27, Illinois.

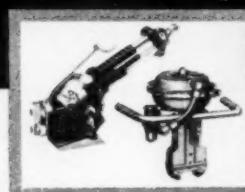


## STEEL STRAPPING

Circle No. 18 on Reader Service Card

heavy-duty  
shipping problem?

EVEN JUMBO  
SHIPMENTS  
CAN BE EASY  
TO HANDLE



From the Acme Steel complete  
line of **powered** strapping  
tools—Stretcher (B1R) and  
Sealer (C8). For heavy duty  
service.

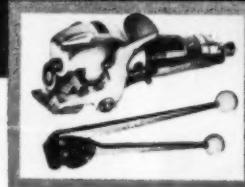
**WITH ACME STEEL STRAPPING, TOOLS AND  
IDEAS**—to reinforce, tie, bale, unitize, bundle, brace carloads—help handle even the heaviest shipping problem. Write Dept. FEZ-89D, Acme Steel Products Division, Acme Steel Company, Chicago 27, Illinois.



## STEEL STRAPPING

penalized by the  
wrong tools?

LET THE  
RIGHT TOOL  
EXPEDITE  
PRODUCT  
HANDLING



Manual or powered, choose  
Acme Steel tools for any  
strapping need . . . Powered  
Stretcher (B1B) and Manual  
Sealer (C3).

**USE ACME STEEL STRAPPING, TOOLS and IDEAS**  
—to unitize, close, bundle, reinforce, bale, tie, brace carloads—help make your product handling so much easier and far more economical. Write Dept. FEZ-89E, Acme Steel Products Division, Acme Steel Company, Chicago 27, Illinois.



## STEEL STRAPPING

Circle No. 20 on Reader Service Card

**you wouldn't  
eat spaghetti  
with a toothpick-**

**WHY  
HANDICAP  
PRODUCT  
HANDLING  
WHEN IT  
CAN WORK  
SO WELL  
SO EASILY?**

From the Acme Steel complete line of strapping tools—Stretcher (B5) and Sealer (C1). Low cost team tools.



**USE ACME STEEL STRAPPING, TOOLS  
AND IDEAS**—to unitize, close, bundle, reinforce, bale, tie, brace carloads—help make handling or shipping your product so easy and economical. Write Dept. FEZ-89C, Acme Steel Products Division, Acme Steel Company, Chicago 27, Illinois.

**ACME  
STEEL**

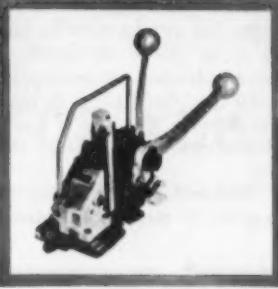
**STEEL STRAPPING**

Circle No. 21 on Reader Service Card

AUTUMN 1959

think there's  
a better way  
to pack or ship  
your product?

**WE'VE  
GOT AN  
IDEA  
THAT CAN  
PROVE  
YOU'RE  
RIGHT!**



One of the complete line of Acme Steel strapping tools—the Steelstrapper (200 series). Does all 3 jobs . . . tensions, seals, cuts.

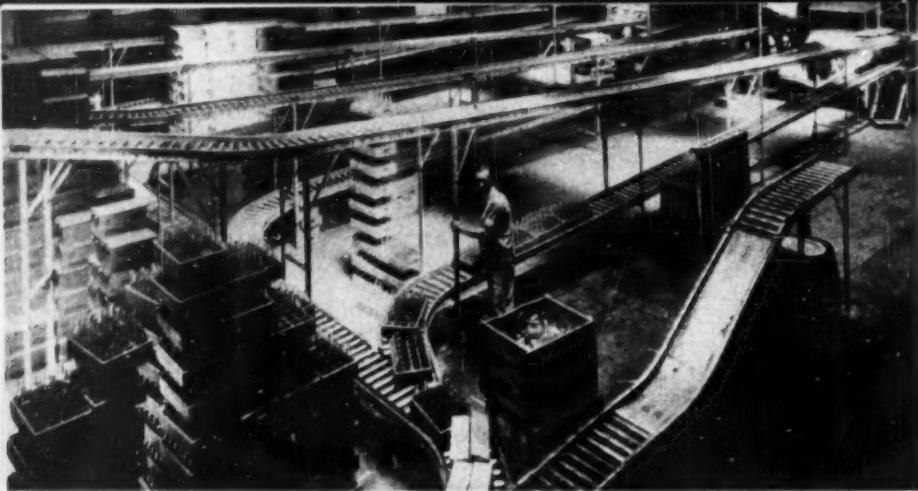
**USE ACME STEEL STRAPPING, TOOLS  
AND IDEAS**—to unitize, close, bundle, reinforce, bale, tie, brace carloads—help make product handling ideas work better and with greater economy. Write Dept. FEZ-89B, Acme Steel Products Division, Acme Steel Company, Chicago 27, Illinois.

**ACME  
STEEL**

**STEEL STRAPPING**

Circle No. 22 on Reader Service Card

17



Circle No. 109 on Reader Service Card

**GRAVITY** and live roller conveyors are combined in this beverage plant for loading and unloading. Movement is made horizontally or on inclined planes.



Circle No. 110 on Reader Service Card

**ROLLER** transfer cars serve four roller conveyor lines for tooler.

From cokes to castings . . .

## Roller Conveyors Fit Any Job

**Y**OU CAN MOVE almost every type of package, container, or article by roller or wheel conveyor. All that is required is a reasonably firm and straight surface for contact with the rolls. Installations range from single made-to-order units to extensive engineered systems.

Articles that have projections that might catch between the rolls, and flexible articles such as sacks, have to be placed on pallets. (A piece of plywood or belting may do). Or they may have to be placed in containers.

Roller/conveyors operate three ways.

1. Material is pushed along level conveyors by hand. The force re-

quired is usually only 2 to 4 percent of its weight. With ball bearing rolls, a light push will move one whole stack or row of stacks. They are ideal for storage operations. The orderly flow results in items stored first being used first.

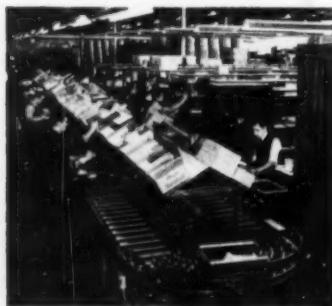
Level roller conveyors make efficient, inexpensive systems when a production rate is moderate, and when the layout requires a series of manual work stations.

2. Material moves by gravity down conveyors set at a slight slope. Gravity roller conveyors are economical. Initial cost is negligible. They're ideally suited to many short run handling operations. Rolls should be spaced closely so that there are at least 3 rollers

under the load constantly.

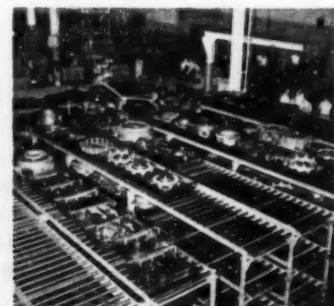
3. Material is moved along by power-driven rolls. Live roller conveyors use ordinary rollers powered from below by a continuous belt. They're ideal for moving loads with sharp edges, hot surfaces, or other features which would damage the carrying surface of other conveyors.

While live roller systems are ordinarily level, they can be used for elevating at slopes up to 7 degrees, depending on the friction coefficient between packages and rolls. Slopes for lowering can be slightly greater if needed. Loads from a few ounces up to 60,000 pounds can be handled on roller conveyors. ▲ ▲



Circle No. 111 on Reader Service Card

**ORDER** picking is eased for drug maker by working level conveyor.



Circle No. 112 on Reader Service Card

**FIRST** in is always first out in orderly roller conveyor storage.



Circle No. 113 on Reader Service Card

**FLOOR** level conveyors are used for storage by boxboard maker.



**Load Lifter Series "700" Wire Rope Electric Hoists.**  $\frac{1}{2}$  to 15 tons. Fast, heavy-duty hoists with safe 24-volt push-button control and two automatic brakes. Two-speed models for spotting fragile loads safely. Hi-hook type available. Lug suspension and push, hand-gearred and motor-driven trolleys.



**Load Lifter Series "900" Wire Rope Electric Hoists.**  $\frac{1}{2}$  and 1 ton. Low headroom design. Tough, lightweight hoists that speed production. Separate load and motor brakes. Single and two-speed models with 24-volt push-button stations. Lug and hook suspension; push and motor-driven trolleys.



PULL CORD CONTROL MODEL



PUSH BUTTON CONTROL MODEL

**Budget Electric Hoists.**  $\frac{1}{4}$  to 2 tons. Modern safety-first hoists for money-saving load handling. Push-button control—plus separate motor and load brakes that operate simultaneously—provide fast, accurate "spotting" action. All capacities delivered ready to hang up, plug in and use. AC and DC types. Hook suspension. Trolleys available. Standard models have pull cord control.



**Load Lifter Air Hoists** with wire rope load line,  $\frac{1}{2}$  to 15 tons. Five-cylinder motor provides smooth operation at all speeds. Speeds infinitely variable to 37 FPM, depending upon capacity. Pendant cord control. Mechanical load brake. Low headroom design. Lug, push trolley and hand-gearred trolley suspension.



**Budget Air Hoists.**  $\frac{1}{4}$ ,  $\frac{1}{2}$  and 1 ton. Link and roller chain types. Explosion-proof motor cannot burn out. Spark and corrosion resistant link chain type models. Speeds infinitely variable to 75 FPM, depending upon capacity. Pendant cord control. Safety hooks standard. Rigid mount type and push trolley available.



**Budget Chain Blocks.** Light, tough aluminum frames. Efficient spur gearing. 25 lb. pull on hand chain lifts 500 lbs. Fast-action load brake makes lowering easy, spotting accurate. Available with top hook or headroom saving Army Type trolley, push type or hand geared. Spark and corrosion resistant models.



**Budget Roller Chain Blocks.**  $\frac{1}{4}$  to 2 tons. Spur-gearing and automatic load brake enclosed in sealed housing. 45 lb. pull on hand chain lifts  $\frac{1}{2}$  ton. Easy to carry, hang up and use anywhere. Accurate load spotting in a cinch.

**Budget Differential Hoists.**  $\frac{1}{4}$ ,  $\frac{1}{2}$  and 1 ton. Durable, low-priced hoists for occasional use where high efficiency isn't required. Aluminum alloy yokes are light and strong, precision machined. Yoke design saves headroom.



**Tugit — the Lever-Operated Hoists.**  $\frac{1}{4}$  to 3 tons. Spur-gearred, lightweight lifting and pulling tool you can carry around for a thousand and one jobs. Operates easily at any angle, even in close quarters. A 42-lb. pull on the handle lifts 2 tons. Spark and corrosion resistant models.



**MMW Load Scale.**  $\frac{1}{2}$  to 2½ tons. Hangs between hoist or crane hook and load. Weighs load while in suspension. Accurate to within 2/10th of 1% of full scale reading. Has 15" dia. Weight only 42 lbs. Load limit switch available to stop hoist at present safe limit.



**I-Beam Trolleys.**  $\frac{1}{4}$  to 20 tons. Attach to top beam of hoist to add travelability. Bearing-equipped for easy operation. Geared type available.



**Budget Cord Reel.** Supplies current to hoists and mobile devices with polyphase motors up to  $7\frac{1}{2}$  hp; single phase to  $\frac{1}{2}$  hp. Cord reels in any direction but stays taut.



**Budget Conductor Cord Trolleys.** Used in any number to hold cord feeding current to hoists on monorails. Also suitable to hold cords on other devices aloft.

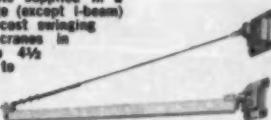
**Budget Crane Assemblies.** "Build it yourself" kits to assemble hand-gearred top running bridges in capacities to  $3\frac{1}{2}$  tons with  $17\frac{1}{2}$  ft. spans and to 6 tons with 25 ft. spans. No machining or drilling. No special tools.



**Budget Bridge Drive.** Electrifies hand-operated crane bridges up to 10 tons at low cost. Easy to install. No drilling or machining. Safe 24-volt push-button control with cushion stop and start for accurate spotting. Crane travels at walking speed.



**Load Lifter Crane Components** to build your own crane bridge. Capacities to 10 tons with spans to 50 feet. You buy I-beam and cross shaft locally and save on freight. All other components furnished in "package" shipment.



**Budget Job Crane Assemblies.** All components supplied in a single package (except I-beam) to build low-cost swinging bracket job cranes in capacities to  $4\frac{1}{2}$  tons. Easy to install without special tools.



**Lead Lifter Jib Cranes.**  $\frac{1}{4}$  to 5 tons. Revolve smoothly through a full circle. Self-supporting. Types to bolt to the floor; other to set in concrete foundation.



**Budget Gantry "A" Frames.** 1 and 2 tons. For low-cost mobile lifting service. Caster equipped. Shipped knocked down. Easy to assemble with I-beam purchased locally.

## COST CUTTERS FOR YOU

These overhead load handling devices are but a cross-section of the wide variety available to help you to modernize, to enlarge present facilities or to equip a new plant.

We build overhead load handling equipment that has all the qualities essential to meet your needs for years to come. Ask your nearby Shaw-Box distributor to put his specialized knowledge to work for you. A phone call will open the way to savings in time, trouble and expense when making selections. Or, if you first want details about any of our products to guide you, write us direct.

59L-TR



### OVERHEAD LOAD HANDLING EQUIPMENT

Products of  
**MANNING, MAXWELL & MOORE, INC.**

Shaw-Box Crane & Hoist Division • Muskegon, Michigan  
In Canada: Manning, Maxwell & Moore of Canada, Ltd., Galt, Ontario

Circle No. 23 on Reader Service Card



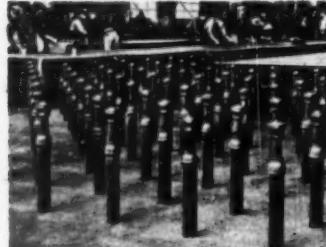
Circle No. 114 on Reader Service Card

**WHEEL CONVEYOR** speeds packages to gravity flow storage rack.



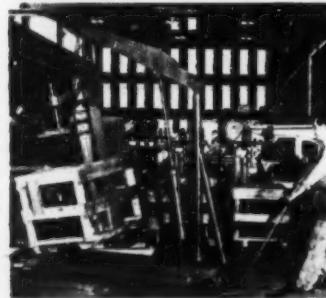
Circle No. 115 on Reader Service Card

**HAND TRUCKS** are made in many varying styles, sizes, and capacities.



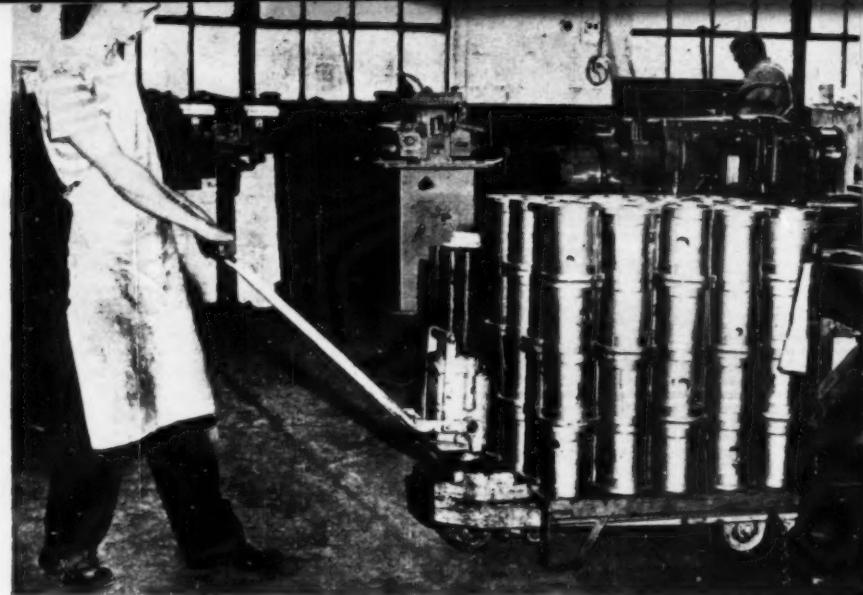
Circle No. 116 on Reader Service Card

**BALL TRANSFERS** make it easy to move material in any direction.



Circle No. 117 on Reader Service Card

**FLOOR CRANES** are used for stacking and nonrepetitive maintenance.



Circle No. 118 on Reader Service Card

**HYDRAULIC SKID LIFT TRUCKS** are maneuverable, handle heavy loads well. Heavy duty models are available with capacities up to 6,000 pounds.

## "Man Power" Handling is

**T**O MANY PEOPLE think that expensive powered equipment is always needed to improve a handling system. Sometimes non-powered handling — man power assisted by mechanical equipment — is the best solution to handling problems.

There is a wide variety of products to help you in manual handling. For example, the 1960/61 MATERIAL HANDLING ENGINEERING DIRECTORY (soon to be published) lists 14 types of two wheel hand trucks. Other equipment that makes manual handling efficient includes chutes, roller and wheel conveyors, portable elevators, chain hoists, platform trucks, wheelbarrows, pallet dollies, and lift tables.

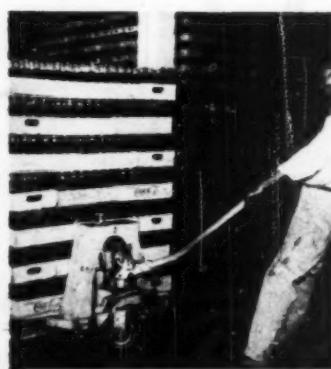
When your work flow follows a constant path, look to roller or wheel conveyors to take the work out of manual handling.

Chain hoists are easy to spot where you need them and provide accurate control of the rate of lifting. Portable cranes and elevators also have these advantages.

With two wheel hand trucks under ideal conditions you can move up to 1,000 pounds. For easy control make sure your workers balance the load just behind the wheel — a hand truck doesn't have to be a back breaker. A wide range of two-wheel hand trucks is avail-

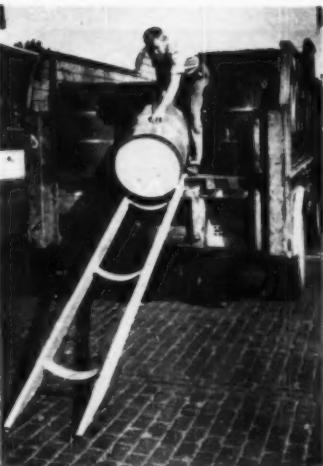
able for your selection, including special models such as drum-movers and appliance trucks. Hand trucks are especially useful where distances are short and space limited.

You can move loads up to 6,000 pounds with low-lift or jack-lift trucks. Low-lifts move pallets and skids, while the jack-lifts are used with semi-live skids. Use pallets wherever possible, particularly where large quantities must be moved, because they are the cheapest. The skid is a better choice when you need a more durable unit or



Circle No. 120 on Reader Service Card

**HAND PALLET TRUCK** spots loads easily despite use in narrow aisles.



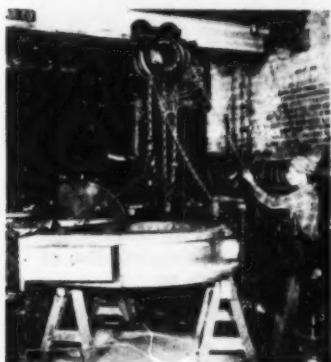
Circle No. 119 on Reader Service Card

**BARREL SKIDS** are typical of simple equipment that speeds handling.

## Good Handling

where a bin or other special carrier is called for. The cost advantage of the pallet is reduced with lower load volumes. The jack-lift and semi-live skid are generally limited to part time moving.

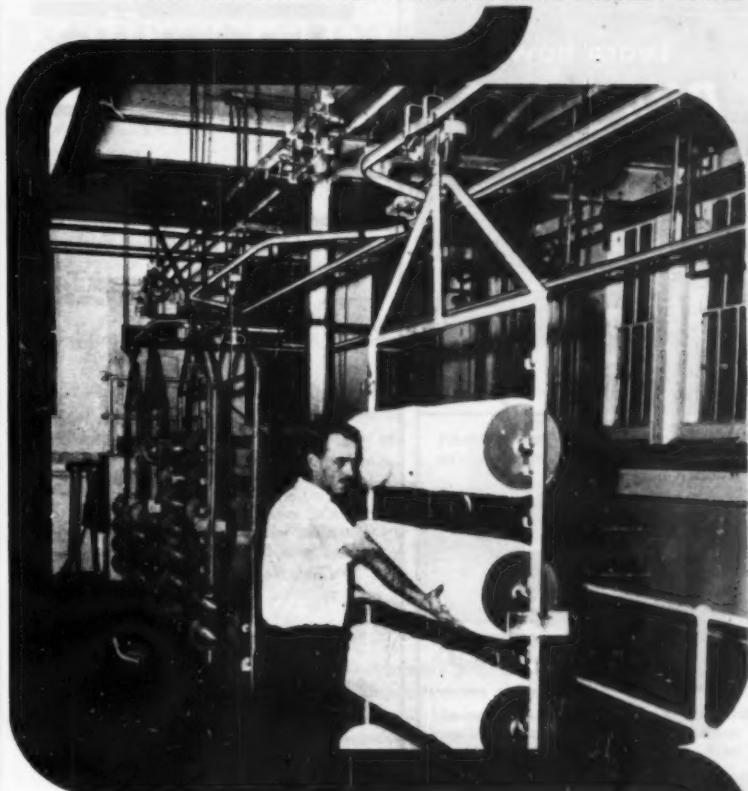
With a portable elevating truck, one man can move and lift 1,000 pounds as high as 8 feet. There are four basic types of trucks for elevating: fork, platform, straddle models for use with pallets, and drum stackers. A slope of about 6 degrees is the maximum a man can navigate with a fully loaded truck. ▲▲



Circle No. 121 on Reader Service Card

**SPUR GEAR CHAIN HOIST** is used for infrequent, heavy lifting jobs.

## MASSACHUSETTS WOOLEN MANUFACTURER'S PROBLEM SOLVED



### POWER AND FREE CONVEYOR SYSTEM

- Eliminates manual handling and reduces manpower requirements
- Moves 160-lb. spools of yarn through a 2-story processing cycle
- Automatically dispatches carriers to several operating stations
- Automatically stores in-process goods by grade and color on gravity lines
- Returns empty carriers to one of 13 loading stations

In this system, power is provided by a regular overhead Chainveyor system. Pusher dogs, mounted directly to the chain serve as the motivating force, automatically moving the loads attached to the free carriers. Free carriers move in storage or free track alongside the power track. Switches automatically shunt carriers off and onto powered lines as desired. Carriers then can travel by gravity or may be hand-pushed on storage or free track.

For further information about Chainveyor power and free systems, engineered for economical automatic materials handling write:



Engineers & Manufacturers

DISTRIBUTORS IN ALL PRINCIPAL CITIES

DISTRICT SALES OFFICES • CHICAGO, DETROIT,

JACKSONVILLE, NEWARK, NEW ORLEANS

MAIN OFFICES • 5618 East Washington Blvd.

Los Angeles, California

Circle No. 24 on Reader Service Card

Learn how  
**DUO-FAST**  
can save you money



DUO-FAST Gun Tacker makes short work of attaching tags and labels to wooden boxes, etc.



DUO-FAST Air Plier speeds stapling of special cartons, corrugated filler bags, etc. Powerful, yet portable.



DUO-FAST Hammer Tacker — fastest, easiest method of applying protective pads, boxcar linings, etc.



DUO-FAST Outward-Cinch Stapler solves the problem of attaching labels to filled cartons. No anvil needed.

FREE: Send for Bulletin FT-50. Find out how DUO-FAST Staplers and Tackers can speed and simplify your fastening jobs. And remember—DUO-FAST tools are backed by our FREE SERVICE GUARANTEE. Why settle for less?

**FASTENER CORPORATION**  
3756-64 River Rd., Franklin Park, Ill.

**DUO-FAST**

Staplers • Tackers • Staplers

Circle No. 25 on Reader Service Card

## HANDLING HIGHLIGHTS

Continued from page 4

### Handling System

Get the complete story on this cost-cutting material handling system from The Union Metal Manufacturing Company. It offers you increased production at lower cost.

Circle No. 39 on Reader Service Card

### Portable Containers

Ideal to minimize parts, tools, material handling are the Stackbins in which you carry materials throughout your process without transferring contents to any other container. Stored in Stackrak's, every Stackbin is instantly accessible when needed. Available in 7 sizes from Stackbin Corp.

Circle No. 72 on Reader Service Card

### Self-Dumping Hopper

Why not let Roura Self-Dumping Hoppers cut costs and save time for you in handling hot or cold, wet or dry bulky materials? Write Roura Iron Works, Inc. for full information.

Circle No. 45 on Reader Service Card

### Steel Strapping

Signode Steel Strapping Co. will tell you how to strap better for less...at the speed you need. Company says it has tools, machines, and accessories to meet your requirements.

Circle No. 7 on Reader Service Card

### Easy Stacking Baskets

Write the Wire and Iron Products, Inc. for bulletin B-57 for details on compartmented baskets for segregated parts handling or open mesh type for bulk handling. May be zinc-plated, plastic, or neoprene coated.

Circle No. 63 on Reader Service Card

### Storage Systems

Adding to your warehouse? Company says that with the properly selected equipment and flow of materials, your present storage space area may be adequate. Write The Paltier Corporation to see if you have sufficient space — if you put it to proper use.

Circle No. 77 on Reader Service Card

### Space Saving Facts

A 24-page bulletin "Pallet Handling In Narrow Raymond Aisles" is available from The Raymond Corporation. Learn how you can store more goods in your present warehouse and increase capacity as much as 50 percent.

Circle No. 13 on Reader Service Card

## DISTRIBUTORS SELLING

### FLEXANGLE REPORT

163 uses!

#### A BIG MARKET IN



#### MEZZANINES AND STAIRWAYS

#### A BIG MARKET IN



#### DIECARTS

#### A BIG MARKET IN



#### STORAGE RACKS

Customers themselves find new uses for FlexAngle every day. FlexAngle SELLS. FlexAngle brings REPEAT SALES. FlexAngle is a DOOR OPENER for other product sales! For a complete list of product uses write to ...

**FLEXANGLE**  
CORPORATION

3761 OAKWOOD AVE. P.O. BOX 418  
YOUNGSTOWN, OHIO

Circle No. 250 on Reader Service Card

### Floor Trucks

For regular or special design floor trucks, Nutting Truck And Caster Company has a wide choice. Junior Catalog 59G is available.

Circle No. 29 on Reader Service Card

### Dock Boards

Self adjusting dock boards for varying height of dock and truck bed are made by Modern Light Metals, Inc. Handholds are formed with siderails. There are no castings, no welds. Write for complete information.

Circle No. 27 on Reader Service Card

### Light Duty Casters

Corrosion resistant casters for food processing and in other plants where corrosive conditions prevail are made by The Bassick Co. Ideal too when casters are often exposed to the elements.

Circle No. 85 on Reader Service Card

### Tote Boxes

Write The Paige Company for prices on 100 to 5000 quantities of its Miracle Tote Box. Company says the double bottom on the box will support all the weight a man can carry.

Circle No. 48 on Reader Service Card

### Hoists and Cranes

Manning, Maxwell & Moore, Inc. will send you information on overhead load handling devices that will help you modernize, enlarge plant facilities, or equip a new plant.

Circle No. 23 on Reader Service Card

### Industrial Tractor

Bulletin KT describes the powerful Hydroelectric tractor that can easily haul one or multiple units with speed and safety. Features the Dyna-Dual Power unit. Write Lift Trucks, Inc.

Circle No. 61 on Reader Service Card

### Storage Rack Fittings

Company says it's easy to construct storage racks with high tensile aluminum Nu-Rail structural fittings because no welding or threading is needed. Fittings just slip over the pipe. The Hollaender Manufacturing Co. will send full information.

Circle No. 65 on Reader Service Card

### Easy Drum Handling

One man can safely handle liquid drum loads from 500 to 1000 lbs. He can raise, rotate, transport, tilt and drain 55 gal drums easily. Write Morse Manufacturing Co., Inc. for information on its Model 80 Barrel-Lift.

Circle No. 52 on Reader Service Card

### Conveyor Data

Walk through 70 actual installations and see how combined use of many Rapistan conveyors is compounding material handling savings in time, space, and manpower. Write The Rapida-Standard Co., Inc. for its new idea handbook.

Circle No. 17 on Reader Service Card

## EXPLOSION PROOF

CLASS I GROUP D

### POWERED LIFT TRUCKS

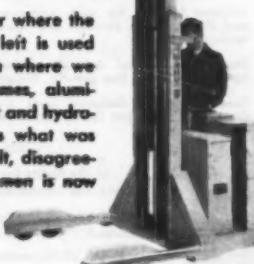


## APPROVED and PROVEN

8 YEARS  
ON THE JOB

Since 1951 Revolvator Go-Getters, designed for this service, have been specifically approved by leading industrial insurance companies for use in Class I Group D explosion hazardous areas in major plants from coast to coast. User comments like those below show that the Go-Getter has been more than approved by safety authorities... it has been proven in use for eight years.

The Plant Manager where the Go-Getter at the left is used says, "In an area where we have explosive fumes, aluminum chloride dust and hydrochloric acid fumes what was previously a difficult, disagreeable job for two men is now easy for one."



Air in the color mixing room of the finishing plant where the Go-Getter above is used carries organic dusts as well as explosive fumes. The foreman says, "The men like the Go-Getter and use it steadily."



Executives in the chemical plant where the model to the right is used say, "We use the Go-Getter in our area which has the most severe hazard." Another plant where quantities of explosive solvents are used for "wash down" reports of a similar model, "We are well pleased and we are ordering another Go-Getter."



A major insurance association writes, "We are quite willing to accept the unit (Go-Getter) as it is designed with explosion proof housings for the motors and controls as usually specified for electrical equipment that can be safely used in explosion hazardous areas."

A nationally known safety engineer writes, ". . . calling the existence of this line of trucks to the attention of the industry as we believe many would want to know about this equipment."

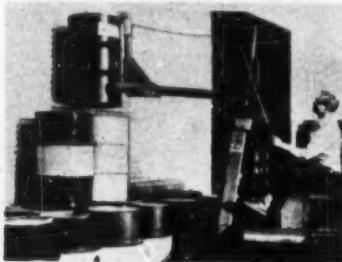
The Go-Getter is the latest addition to a complete line of materials handling equipment for use in explosion hazardous areas that Revolvator has been building for over a quarter of a century.

**REVOLVATOR CO.**  
8719 TONNELE AVENUE, NORTH BERGEN, N. J.  
SINCE 1904

Circle No. 26 on Reader Service Card

Circle No. 27 on Reader Service Card

## MLM LADD SURE-GRIP DRUM LIFTER



### CUTS HANDLING TIME - COSTS!

Lifting open or closed metal drums (weighing up to 2,000 lbs.) is easy, quick, safe for one man, a fork lift truck — and the Ladd Drum Lifter!

- Attached or removed in seconds! Forks are not removed — no semi-permanent attachments.
- Without leaving his seat, operator selects and lifts a drum through any space wide enough for forks!
- Stocking is simple! Secured on fork ends, Ladd Drum Lifter has greater, higher reach!
- Safe! Specialty designed jaws won't let drums shake or jolt loose! Positive safety cable release!

**Modern  
Light  
Metals, Inc.**

Write today for  
complete information

**MODERN LIGHT METALS, Inc.**  
Coloma, Mich. Tel. HOWard 8-3041  
Mfrs. of Magnesium  
Deckboards and Yard Ramps

## WHAT'S NEW IN USEFUL LITERATURE

### Overhead Conveyor System:

Typical installations and layouts, with complete engineering specifications are in a 12-page catalog on overhead conveyor systems. The company shows how its conveyors meet the demand for modern handling of any type of intermediate load in varied applications.

*Chainveyor Corp.*

Circle No. 166 on Reader Service Card

### Power Dock Data:

Three models are detailed. Model 8000, retractable; Model 7000, fixed lip; and Model 9000, designed especially for operation with walkie pallet trucks and lighter loads. Technical specifications are given for all.

*Hartman Metal Fabricators, Inc.*

Circle No. 167 on Reader Service Card

### Industrial Cellular Materials:

An 8-page pamphlet illustrates and describes the properties and applications of industrial cellular rubber and plastics. Covered are sponge rubber, neoprene, silicone sponge, cell-tite, and

cellular vinyl. The materials are available in sheet stock, die cut shapes, pad stock, strips, tubing, cord and moded forms for applications in sealing, vibration damping, shock absorption, insulation and floatations.

*B. F. Goodrich Co.*

Circle No. 168 on Reader Service Card

### Industrial Caster Folder:

Detailed information, illustrations and specifications on 24 different series of truck casters are included in folder No. 10158. Both swivel-plate and rigid-plate casters are included. They range in size from light duty casters with a three-inch wheel and 75-pound load capacity to super-heavy-duty casters with a 10-inch wheel and 15,000 pound load capacity.

*Faultless Caster Corp.*

Circle No. 169 on Reader Service Card

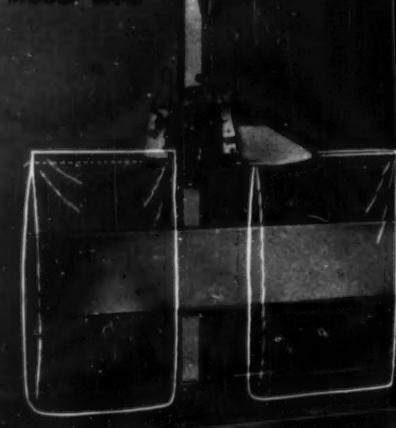
### Special Speed Control Fork Truck Series:

"Acro-Smooth" speed control permits safer operating according to this company. It means far better inching in tight places and removes the hazards

## FISCHBEIN® Automatic BAG CLOSER

Large Plant Production...Small Plant Price!

MODEL BM-6



- Bag activates and completes sewing operation automatically.
- Simple mechanical operation ... Simple installation.
- Sews at rate of 30 feet per minute.

An automatic closing unit. The bags themselves start the sewing operation when they reach the sewing head. After sewing is completed, thread is cut automatically and sewing action stops as conveyor belt continues to move bag.



Write for details and complete catalog-file of Fischbein Bag Closing Equipment.

**DAVE FISCHBEIN CO., DEPT. MH**

2720 30th Ave. South, Minneapolis 6, Minn.

Name \_\_\_\_\_

Firm Name \_\_\_\_\_

Address \_\_\_\_\_

Circle No. 28 on Reader Service Card

of traveling with the load elevated when moving in or out from a pile. Smooth acceleration prevents spilling loads, means less strain on drive parts. The speed control is available on Elpar's new F-50T series electric trucks, 4,000 to 6,000 lbs. capacity. Literature gives full details.

*The Elwell-Parker Electric Co.  
Circle No. 170 on Reader Service Card*

#### Abrasion Resistant Wheels:

A folder describes characteristics and advantages through case histories of the Disowheel. A chart compares the wheel's tread with other wheel tread materials. Company says the wheels are as strong as steel, resilient as rubber, due to Disogrin, a polyurethane elastomer. The elastomer meets these high standards of abrasion resistance, resilience, and tensile strength.

*Disogrin Industries*

*Circle No. 171 on Reader Service Card*

#### Bulk Weighing:

Automatic bulk weighing systems weigh and record weights, and deliver the number of drafts set on pre-determined counter. System subtracts residual material in the hopper after each discharge. The printed record always shows net weight. Form 2490 gives full information.

*Toledo Scale*

*Div. of Toledo Scale Corp.  
Circle No. 172 on Reader Service Card*

#### Wear Resisting Containers:

Durable Wire-Tainers are made in a variety of sizes and capacities to fit most any requirement. They're designed to cut your operating costs, and speed production. Open base construction gives easy transporting and storage with fork trucks, platform trucks, hand pallet trucks, straddle trucks or cranes. They are made for easy, fast stacking. They fold down easily, 5 containers folded take only the space of one set-up container.

*Springport Steel Products Co.*

*Circle No. 173 on Reader Service Card*

#### Waste Disposal Film:

A 15 minute film called "The New Era of Refuse Collection" is available for technical groups. In color, it traces the history of waste collection, and points to many present day problems. Solutions are filmed on location at well-known plants. The Dempster-Dumpmaster self-loading packer is featured.

*Dempster Brothers*

*Circle No. 174 on Reader Service Card*

#### Tractor Specification Sheets:

Three specification sheets are available. MS-1325 covers the company's Model Forty Five motor grader. The other two, MS 1192 and MS 1284 give data on the company's HD-16 DC and D Diesel powered crawler tractors. All three sheets feature cutaway views.

*Allis-Chalmers Mfg. Co.  
Construction Machinery Div.*

*Circle No. 175 on Reader Service Card*

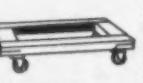


**Nutting** shows you  
"HOW"...

**the widest choice of floor trucks  
in the world can cut your costs!**

For regular or "special" design floor trucks it pays to talk to Nutting first. Here's why: no other company makes more models, sizes or combinations of equipment than Nutting. Many times items which you may find listed as "specials" with other makes are regular equipment in Nutting's complete line. As a result you get "custom built" trucks at production line prices. You not only get overall lower prices; you also get the benefit of 68 years of experience, design "know-how" and modern manufacturing skills. To save valuable hours of your time and get the right equipment for your plant, talk to a Nutting representative first, for all your floor truck needs!

**Nutting makes over 1000 products, here are just 16 of them**

 <p>For appliances and finished products</p>	 <p>Wagon trucks up to 10,000 lbs. capacity</p>	 <p>All types of dollies for boxes &amp; cases</p>	 <p>For sub-floor &amp; overhead drag lines</p>
 <p>Trailers — up to 7,000 lbs. capacity</p>	 <p>CASTERS — all types</p>	 <p>WHEELS — demountable rubber tired, solid rubber, plastic &amp; metal</p>	 <p>Shelf and tray trucks</p>
 <p>Steel &amp; aluminum frames for cases &amp; cartons</p>	 <p>Drag line trucks &amp; trailers for palletized handling</p>	 <p>Non-tilt platforms — Wood &amp; steel frames</p>	 <p>Shelf trucks for sub-assemblies</p>
 <p>Dollies for cylindrical &amp; odd shaped items</p>	 <p>Tri-form &amp; box trucks for packages &amp; bundles</p>	 <p>"Auto-Load" barrel &amp; drum trucks</p>	 <p>Tilt style platforms — Wood &amp; steel frames</p>

Dollar for dollar, feature for feature Nutting is your best floor truck buy. Write for your free copy of new Junior Catalog 59G.

**Nutting**

**TRUCK AND  
CASTER COMPANY**  
**Faribault, Minnesota**

**NUTTING TRUCK & CASTER COMPANY**  
150 Division Street • Faribault, Minnesota  
Please send copy of Junior Catalog 59G.

NAME \_\_\_\_\_  
COMPANY NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_

*Circle No. 29 on Reader Service Card*

## WHAT'S NEW IN EQUIPMENT

Continued from page 10

smoothness with varying loads which was previously possible only with more expensive direct current control systems. Heart of the system is a squirrel-cage motor used with conventional control components. Control unit requires no secondary controls, accelerating relays, or load resistors.

*Yale Materials Handling Div.,  
Yale & Towne Mfg. Co.*



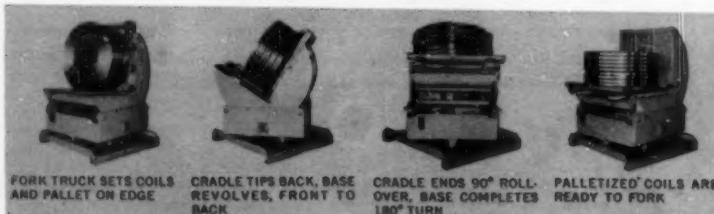
Old Method — time consuming, requires two men



La Deau Method — takes just one man, is six times more efficient!

### NEW TURNOVER CRADLES PALLETIZE COILS WEIGHING TO 40,000 LBS. IN SECONDS

Producers or users of coiled materials can now palletize coils weighing from 3000 to 40,000 pounds in 14-40 seconds with the completely automatic La Deau TURNOVER CRADLE. You save up to 400% in storage efficiency, 600% in labor efficiency, and eliminate elongated coils and dangerous band breakage. If you handle *only a carload of coiled materials per month*, you can pay for a TURNOVER CRADLE in about a year, with labor savings alone. Reason: the fully portable Cradle lets one man handle as much material in one hour as two men usually handle in three hours!



Write today for descriptive literature

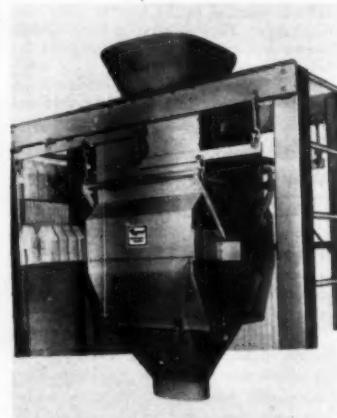
**turnover cradle**

A Product of LA DEAU MANUFACTURING COMPANY  
2702 San Fernando Road, Los Angeles 65, Calif. • Telephone CAPitol 2-8108

Circle No. 30 on Reader Service Card

### Automatic Bag Filler Needs No Power

You can fill any size bags automatically with the Rotomatic open-mouth bag packer. It is fully



Circle No. 165 on Reader Service Card

automatic, all mechanical, and needs no outside power sources such as air or electricity. The Rotomatic combines gravity operation with the even-balance scale principle. It's accurate, fast, and easy to operate. It handles 40- to 100-lb bags, and size changes take less than a minute. Speed is unlimited, restricted only by the operator's speed at feeding bags to the filling tube.

*Raymond Bag Corp.*

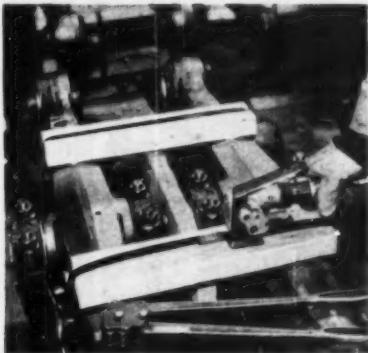
### Need Cartons Fast?

Here's a machine that automatically applies metal stays to all four corners of a carton at the same time. It turns out up to 2,000

## Seven SIGNODE ways to strap better for less ...at the speed you need



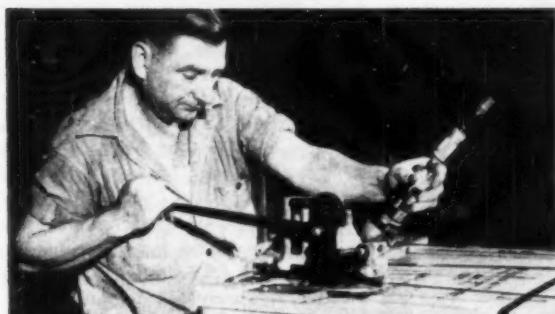
Basic two-piece tool set; easy to use. An inexpensive outfit, including seals, strapping, strap dispenser, stretcher and sealer, saves time and money in any shipping room.



Model N air-power stretcher tightens strapping to preset tensions up to 1600 pounds. Model PN, not illustrated, straps bundles of round or irregular shape.



Signode's SFC—the only one-hand, one-piece strapping tool—shown here with Signode Adjusta-Pak three-way-telescoping corrugated container.



Model AP portable air-power strapping machine—a fast, dependable air-powered tool that tensions, seals, cuts off strap. Preset tensions up to 1600 lbs. Also electric—Model AE.



Model PSF, Power Strap Feeder—now one man straps big packages without a helper and without walking around the package. Inexpensive. Used with any Signode seal feed tool.



Conveyor strapping station holds interlocking container flanges, positions strapping, supports tools, saves time and labor. Handles large-volume flow of various size cartons.



Model M-2 power strapping machine automatically tensions, seals and cuts the strapping. Speeds and improves conveyor line strapping of all types of containers.

It will pay you to see the Signode man near you. He has strapping tools, machines, and accessories to meet your requirements, and can help you with time-saving, cost-cutting packing and strapping methods. For fast service, write, describing your needs to:



*First in steel strapping*

**SIGNODE STEEL STRAPPING CO.**

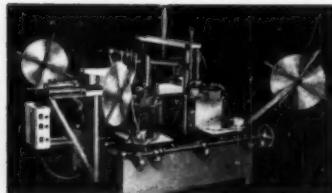
2668 N. Western Avenue, Chicago 47, Illinois

Offices Coast to Coast. Foreign Subsidiaries and Distributors World-Wide  
In Canada: Canadian Steel Strapping Co., Ltd., Montreal • Toronto

Circle No. 31 on Reader Service Card

## WHAT'S NEW IN EQUIPMENT

cartons an hour. Carton sizes may vary from  $1\frac{1}{8}'' \times 1\frac{1}{8}'' \times 1\frac{1}{16}''$  to  $20'' \times 20'' \times 6''$ . Called the Quatre Metlistayer, it's  $\frac{2}{3}$  cheaper than making cartons manually. Special Metlistay have center ribs rather than perforations. They're stronger, better looking, and make lids

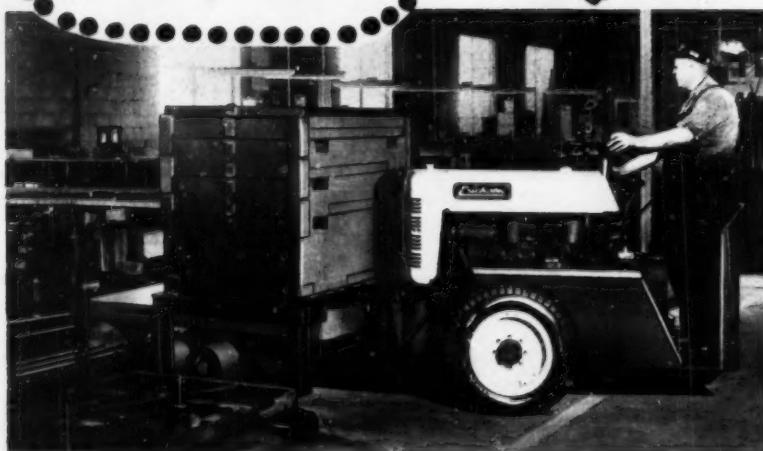


Circle No. 145 on Reader Service Card

easier to slide on and off than conventional stays.

Crowell Carton Div.,  
St. Regis Paper Co.

**ERICKSON**  
ar-tic-u-lat-ed steering  
turns short-  
lasts long...



**ERICKSON AR-TIC-U-LAT-ED STEERING** turns short—lasts long! It swings loads up to 20,000 lbs. into a minimum opening from a narrow aisle. The ar-tic-u-lat-ed pivot between the power package and the load platform turns sharp corners with the effect of 4-wheel steering, but it's stronger, simpler and wears much longer than either two or four-wheel conventional steering mechanisms.

The Erickson P-10A Low-Lift Platform Truck shown above is maneuvering 10,000 lbs. of test weights into storage. Ar-tic-u-lat-ed steering and a 9° vertical lift (platform raises and lowers without horizontal movement) make this an easy operation.



THE WORKHORSE  
OF LIFT TRUCKS  
**POWER LIFT TRUCKS, INC.**  
243 St. Anthony Blvd., N.E.,  
Minneapolis 18, Minnesota

Circle No. 32 on Reader Service Card

Erickson Low-Lift Platform Truck capacities range from 5,000 to 20,000 lbs. with custom platforms to 24 feet long—9° lift.

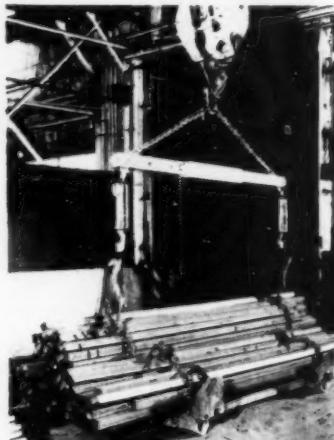
Erickson Hi-Lift Platform Truck capacities range from 5,000 to 13,000 lbs. with lifts to 9 feet—platforms custom built as needed.



Circle No. 146 on Reader Service Card

## Automatic Chain Release

The Acco Solenoid Chain Release has been developed to provide safety in operations where it is dangerous for a worker to un-



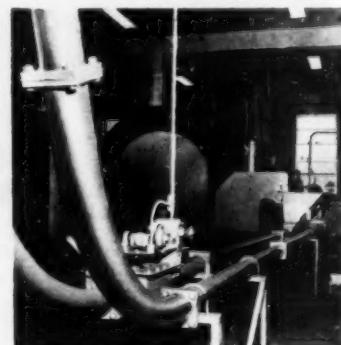
Circle No. 146 on Reader Service Card

hook the load. The unit is remote-controlled by the crane operator. By pushing a button, he activates the solenoids at each end of a spreader bar. This expels the chain from its hooks and releases the load. As a safety factor, all loads must be on the floor with tension removed from the chain before the solenoids will operate.

American Chain Div.,  
American Chain & Cable Co.

## Waste Conveyor

This self-sealed tubular conveyor permits movement of waste material without spillage or odor.



Circle No. 147 on Reader Service Card

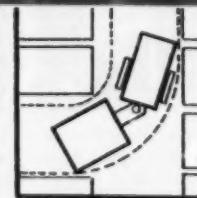


Diagram shows how Erickson ar-tic-u-lat-ed steering has the advantages of 4-wheel steering on tight corners.

Write for Erickson Platform Truck information and name of your nearest Erickson Sales-Parts-Service dealer.

Both receiving and discharge hoppers as well as drive components can be totally enclosed. Because of its ability to handle either wet or dry material, the conveyor eliminates the problem of contami-

nation since there is no need to use fluids to aid the movement of waste. The standard unit of this conveyor is available in sizes from 2 to 8 inches, with capacities up to 25 cfm.

Hapman Conveyors, Inc.

### Portable Gantry Crane

This portable gantry has 6 feet of height adjustment and a wheel tread adjustable to the narrowest



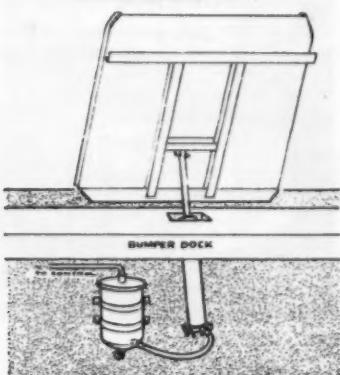
Circle No. 148 on Reader Service Card

aisles. Its I-beam is made of aluminum for lightness and safety. Trolley travels the full length of the beam. Legs fold against the I-beam, resulting in a compact unit for hauling or storing. Models are available in heights up to 17 feet and 15 foot spans.

B. E. Wallace Products Co.

### Hydraulic Dockboard

The Aero-Board is an air-powered hydraulic dockboard that requires no electric power. This



Circle No. 149 on Reader Service Card

unit is lowered or raised quickly by an up-down air valve. The Aero-Board uses air from the terminal air system for power;

**NEW!**

NOW FOR THE FIRST TIME A *Sanitized*®  
PACKAGING MATERIAL

Nature's Green  
BLOCKSMON  
*Paratex*

Falcon missile cushioned in a Parametric Pack.

### WORLD'S FIRST SANITIZED CUSTOM CUSHIONING TO PROTECT YOUR PRODUCTS FROM MILDEW AND MOLD AS WELL AS SHOCK!

Now... protection for your products never possible before! Announcing nature's green Blocksm Paratex... *Sanitized* for sealed-in germ-proof protection. No matter where you ship, no matter what the humidity or temperature, it inhibits the growth of bacteria and organisms. Here at last is the packaging that protects your product from damaging growths and bacteria. Look for the pack that is Nature's Green. That tells you it's made from Blocksm's *Sanitized* Paratex.

A Parametric Paratex Pack meets all transit and storage needs. Whatever you ship... even the most delicate instruments... is safely cradled from damaging shock, vibration and other hazards of shipping. Made of latex impregnated curled hair, it has a "springiness" and a natural resilience for unsurpassed shock resistance. Lightweight and efficient at all temperatures.

Accordance with and complies with military specifications MIL-C-7769A; MIL-P-6064A and cushioning qualifications of MIL-C-4150D.

Write today for FREE information or consultation

**BLOCKSM & COMPANY, PACKAGING DIV.**  
Michigan City, Ind., Dept. MHI-10

Send folder on *Sanitized* Paratex packaging  
 Have packaging engineer call

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

Circle No. 33 on Reader Service Card

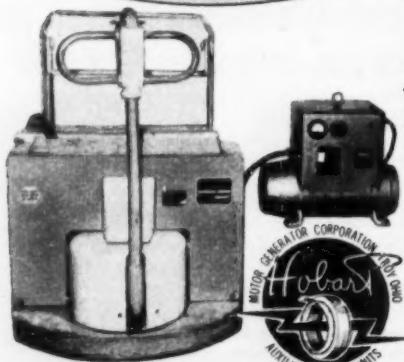
## WHAT'S NEW IN EQUIPMENT

up to 24 boards can be activated by one 40 to 60 gallon air receiver tank and compressor unit. Two models are available—one for installation on docks with permanently constructed bumper (illustration) and the other on flush docks without bumper.

*Freightliner Corp.*

**Battery Charging is EASY—SAFE with**

**HOBART**  
**MOTOR**  
**GENERATORS**

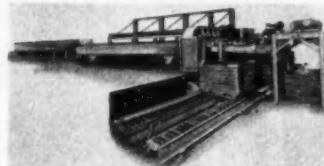


Town Square, Lake City, Pa., literally "makes pies by the truckload"—frozen pies, that is, that go to nationwide supermarkets. This one-truck application is typical of Hobart installations in plants, large and small, across the country.

*Circle No. 34 on Reader Service Card*

### Automated Bar Shear

This fully automated handling system for a bar shear consists of



*Circle No. 150 on Reader Service Card*

an automatic bar feeding system, a take-away system, a container loading system, and an automatic

### Lower Costs

*Initial cost of Hobart Chargers is attractive and maintenance cost comparisons are impressive.*

### Excellent Performance

*Now proven through years of successful operation in nationally known plants—Hobart Chargers operate at maximum efficiency with low power input.*

### Simple Design

*Hobart Motor Generators employ the basic principle of modified constant potential with tapering volt-ampere characteristics for positive control in battery charging.*

### Wide Application

*Hobart Motor Generators are made in a range of sizes to efficiently charge any of the industrial batteries used in electric trucks.*

*Electric truck batteries can be charged more accurately at lower cost and faster with Hobart Fully Automatic Chargers. Why not take advantage of consulting with a Hobart Application Engineer the next time you are considering battery charging equipment? Write the factory and a Hobart representative will call to see you. No obligation, of course.*

**MOTOR GENERATOR CORPORATION**  
(Hobart Brothers Affiliate)  
BOX FLQ-109, TROY, OHIO

container handling system. Both the feeder and the take-away systems are built around conveyors. The cut bars are automatically loaded into a container which is carried away by a shuttle conveyor.

*Spurgeon Co.*

### Thinking About Expendable Pallets?

Here's a lightweight expendable pallet sturdy enough to hold 4,000 pounds of bagged products. It's made of corrugated paper reinforced with kraft veneer board. Sak-Pak pallets come in three sizes, weigh about 5 pounds each.



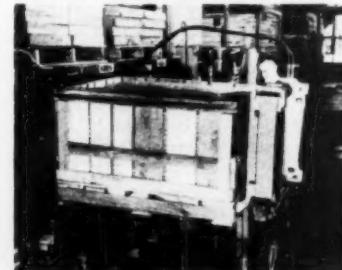
*Circle No. 151 on Reader Service Card*

They're shipped flat, but are easy to assemble with sturdy slots for forks. They can stack up to three high.

*Calco Supply Co.*

### Cut Aisle Width

The STOW (Side Transfer Optimum Warehousing) System features a fork lift truck attachment that permits side loading of pallets



*Circle No. 152 on Reader Service Card*

into racks. According to the manufacturer, you can cut your regular 12-foot aisles by more than 50 percent and in some cases to as little as five feet. The STOW attachment will fit any standard fork lift truck. It handles pallets as

well as skids, wire containers, dies, or other material normally requiring a fork truck for handling.

*Equipment Manufacturing Inc.*

### Use Excelsior Right

A shredder for bales of excelsior breaks up the compressed material, shreds it, and discharges it



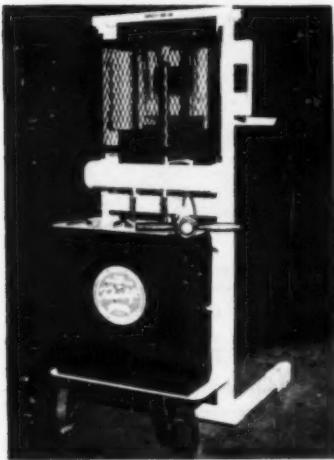
Circle No. 153 on Reader Service Card

fully fluffed. Tests prove it makes the excelsior softer, more resilient, better for cushioning. Just put the bale in the hopper at top, the machine does the rest. Rolls easily from one spot to another. Also good for insulation, paper, peat moss, soil, etc.

*Kemp Mfg. Co.*

### Mobile Fork Lift Truck

Tubarlift Champion Stroller, Model 777, can be operated in a 60-inch aisle. It elevates loads up



Circle No. 154 on Reader Service Card

to 1,000 lbs. to 60 inches in height. The unit has type Hydrowheel fluid drive transmission which assures smooth starts and stops, says the manufacturer. Positive hydraulic braking is an added safety feature.

*Uhrden, Inc.*



# L900

DOUBLE BALL BEARING SWIVEL  
MEDIUM DUTY

CUT YOUR  
HANDLING  
COSTS 3 WAYS



## Faultless Casters

SUPERIOR DESIGN FEATURES

- 1 CORRUGATED TOP PLATE . . . fully hardened to give added strength. Slotted mounting hole spacing permits easy attachment.
- 2 MAIN LOAD BEARING . . . consists of 21 hardened, polished balls (3/8" dia.) rolling in large dia. hardened, lubricated raceway permanently attached to caster horn to assure perfect alignment.
- 3 LOWER THRUST BEARING . . . contains 10 hardened steel balls (3/8" dia.). Hardened raceway is machined from bar stock. Ball retainer is hardened formed steel.
- 4 EXTRA-LARGE DIAMETER KINGPIN . . . assures bonus strength in this caster.
- 5 CLOSE FITTING, FORMED STEEL CUP . . . protects thrust bearing from foreign matter. Holds lubricants in bearings, keeps floor clean.
- 6 HEAVY GAUGE, FORMED STEEL HORN . . . easily absorbs highest rated loads and thrust.
- 7 PULL SELECTION OF WHEELS . . . for all types of floors and operating conditions. Bolt and nut axles permit quick wheel replacement when needed.

SERIES 19700 RIGID PLATE CASTER  
Wheel types and sizes, load capacities and overall heights to match L900 Swivel Plate Caster.

ASK YOUR DISTRIBUTOR! Your Faultless Industrial Distributor will be glad to serve as your expert on casters and wheels. He stocks Faultless Casters and is prepared to offer "plus value" by recommending the right type, load capacity and wheels to suit your requirements. He is listed in your phone directory under "Casters."

FREE! SEND FOR  
ILLUSTRATED  
LITERATURE



Faultless Caster Corporation

Evanston 7, Indiana

Send me Free L900 Medium Duty Caster information.

Name. \_\_\_\_\_

Firm. \_\_\_\_\_

Address. \_\_\_\_\_

City. \_\_\_\_\_ State. \_\_\_\_\_

## WHAT'S NEW IN EQUIPMENT

### More Use for Trailers

Trailer bodies virtually become portable warehouses when Morhaul equipment is added to standard highway equipment. Morhaul consists of leg kits and lift kits to be installed on existing or new rigs. The legs are counterbalanced,

fit on any trailer or master van type shipping container. The lift kit is a simple hydraulic system,



Circle No. 154 on Reader Service Card

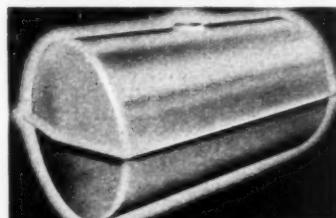
easy to install in the truck or trailer chassis. Also available: an optional lift for rail cars. Morhaul equipped trailers can be left

standing on their legs anywhere, freeing the truck for other hauls, and eliminating waiting time between loading and unloading.

*Moore-Handley*

### Store Corrosives in Plastic

Here's a molded fiber glass tank for spraying or storing corrosive liquids. It's a 200-gallon cylinder



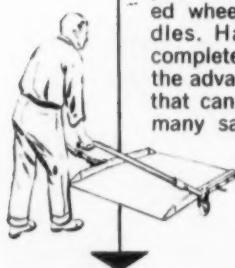
Circle No. 155 on Reader Service Card

52" long, with 32" diameter. It's light, easy to clean, resists impacts, and has long life. It's translucent so the liquid level is always visible. Comes in a variety of colors to code different liquids.

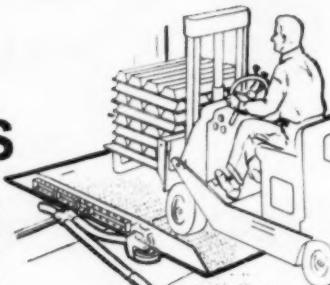
*Molded Fiber Glass Body Co.*

## WOODFORD ROLLWAY Portable STEEL DOCK PLATE

Used By  
**LEADING  
COMPANIES**



One man can easily roll it in and out of position with patented wheels and handles. Handles fold completely out of the way when in use. You get the advantage of heavy rugged steel dock plate that can be moved by one man. Also includes many safety features.



HERE ARE A FEW OF THE COMPANIES  
WHO USE THE ROLLWAY PORTABLE  
DOCK PLATE . . .

Allis-Chalmers Mfg. Company  
Cities Service Oil Company  
Continental Can Company  
Eastern Freight Ways, Inc.  
Firestone Tire & Rubber Company  
Freightliner Company  
General Mills, Inc.  
Interstate Motor Freight System  
Standard Oil Co.  
United States Steel Products

Big Bear Stores  
Continental Baking Company  
E. I. Du Pont De Nemours Company  
Eastman Kodak Company  
Ford Motor Company  
General Electric  
General Motors Corp.  
Ringsby System  
Super Valu Stores  
Yellow Transit Freight Lines

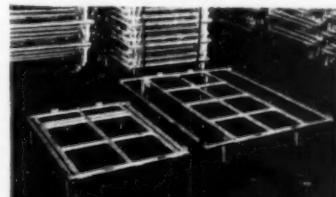
Write now for more information on the many different sizes of Rollway Portable Steel Dock Plates.

**WOODFORD** MANUFACTURING COMPANY  
1602 DELAWARE DES MOINES, IOWA

Circle No. 36 on Reader Service Card

### Tubular Skids Can Change Size

No more making new skids for changing load sizes with the all-steel tubular Weldon skid. You can adjust both length and width by



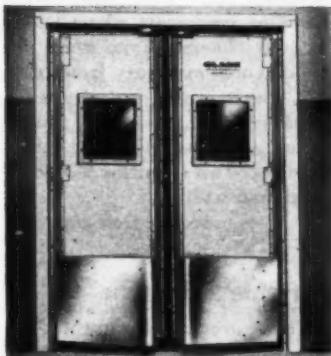
Circle No. 156 on Reader Service Card

sliding 1' steel pipes that telescope inside 1 1/4" pipe. They can't warp, splinter, or absorb water. Aluminum finish is rust-proof. They're originally designed for paper mills but can be used on other products as well. You can lease, rent, or buy them outright.

*Weldon Industries, Inc.*

### Door Bumper

This self-closing door features bumpers that take the shock of contact with fork lift trucks. Bumpers are urethane filled to absorb the impact. Flexibly suspended



Circle No. 157 on Reader Service Card

hinges provide uniform distribution of stress throughout the length of the door at either side. Spring return assures tight closing; drafts and noises are eliminated by neoprene seals.

*Clark Door Co.*

#### No-Heat Belt Repair

Patching and sealing material is applied without heat or pressure. When the compounds are



Circle No. 158 on Reader Service Card

mixed they cure to a tough, resilient rubber at room temperature. Manufacturer says this cold vulcanizing process avoids danger of damage to the belt from overheating.

*Automatic Vulcanizers Corp.*

#### Controls Batching

Batchplug is a system of formula changing in automatic batching equipment. Each standard Batchplug is a self-contained formula.



Circle No. 159 on Reader Service Card

## 6 COST CUTTERS for warehouse and plant . . .



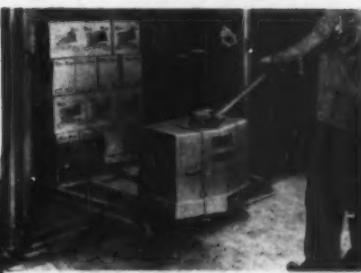
**PORTABLE HYDRAULIC ELEVATING TABLE** positions work, supports long pieces, simplifies die handling. Telescopic and non-telescopic models. Capacity: 2,000 lbs. **CHECK COUPON BELOW**



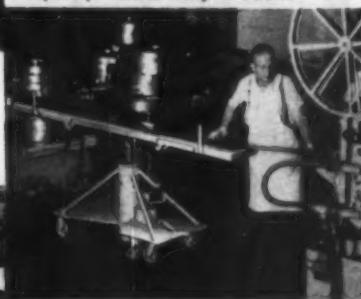
**LIGHTWEIGHT HYDRAULIC PALLET TRUCK** is rugged, maneuverable. Has 270° turning radius, separate lift and lower pedals. Capacity: 2,000 lbs. **Check Coupon Below**



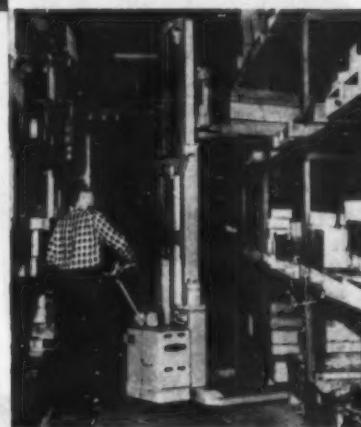
**FREE "Pallet Handling in Narrow Raymond Aisles"**—24 page handbook. Learn how you can store more goods in your present warehouse. Increase capacity as much as 50%. **CHECK COUPON BELOW**.



**ELECTRIC PALLET TRUCK** easily maneuvers pallet loads in and out of trucks. 24 volts. Complete with batteries and charger. 4,000 lb. capacity. **Check Coupon Below**.



**HYDRAULIC SHEET FEEDING TABLE** raises sheets, strips to right working level. Results in easier, safer, faster feeding. Capacity 2,000 lbs. **CHECK COUPON BELOW**.



**ELECTRIC WALKIE STACKER** tiers 2,000 lb. pallet loads 10 ft. high from 6½ ft. aisles. 24 volts. Low price, complete with charger and batteries. **Check Coupon**.

**RAYMOND**

#### The RAYMOND CORPORATION

30187 Madison St., Greene, N. Y.

Send these RAYMOND bulletins to:

- Portable Elevating Table
- Electric Pallet Truck
- Lightweight Pallet Truck
- Electric Walkie Stackers
- Sheet Feeding Table
- FREE 24 page Handbook
- Lease rental-deferred payment plan

Circle No. 37 on Reader Service Card

NAME \_\_\_\_\_ TITLE \_\_\_\_\_

COMPANY \_\_\_\_\_

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_

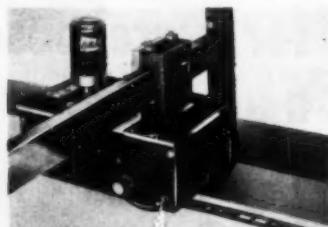
## WHAT'S NEW IN EQUIPMENT

which provides complete preset control for up to 10 ingredients. A screw driver is the only tool required to set the Batchplug for proper control over any batching operation. About the size of a cigarette pack, each Batchplug has an individual nameplate for quick identification.

*The Howe Scale Co.*

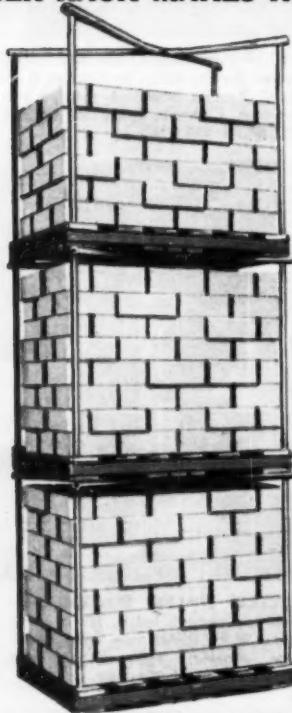
### The Message Changes

You can interchange type wheels for different markings with this imprinting attachment. It's



*Circle No. 160 on Reader Service Card*

### TIER-RACK MAKES HIM



Pat. No. 2,828,932  
Pat. No. 2,828,933  
and Pats. Pending



*Circle No. 38 on Reader Service Card*

### A QUICK-CHANGE ARTIST

... He Alters Your Layout in Minutes



Reach solid-stowed or high-tiered items in a few quick moves . . . change your storage setup in a hurry . . . when you use portable Tier-Rack pallet stacking frames.

Put idle aisles and empty air space to work, too . . . gain up to 50% more storage room in your present floor area.

Send for booklet TR-8.

**TIER-RACK CORPORATION**  
122 N. 7TH ST., ST. LOUIS 1, MO.

designed for web and carton handling equipment where length of copy changes. Type wheel circumferences may vary from 6" to 12". The imprinter is designed for marking paper, boxboard, plastic, metal, and other surfaces. It uses fluid ink. Two sizes: for 2" and 4" maximum widths.

*Adolph Gottscho, Inc.*

### Portable Conveyor

There are many ways to use the Utilaveyor, says its manufacturer. For example, a 16-foot unit can be carried on a pick-up truck to handle building material on the job site. The same basic unit can



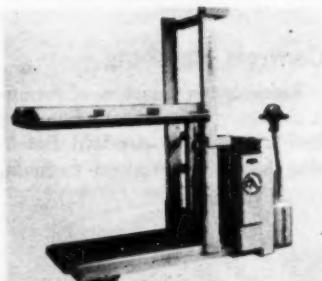
*Circle No. 161 on Reader Service Card*

be expanded to lengths of 24, 32, or 40 feet and retain its easy portability. The Utilaveyor can be powered by a gas engine or electric motor.

*Sam Mulkey Co.*

### Load Stabilizer

A load stabilizer attachment has been adapted for use with a line of low-lift walkie trucks. It was



*Circle No. 162 on Reader Service Card*

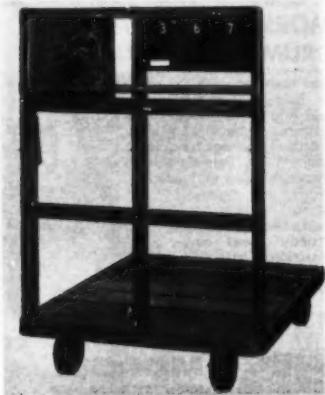
designed primarily for handling skid loads of coated flat paper stock, but is recommended for all

types of loads that are not stable. The stabilizer is hydraulically operated from the handle and clamps down on top of the load. Various clamping heights may be furnished to suit the height of the load by the adjustable clamp arm.

*Lewis-Shepard Products, Inc.*

#### Truck Coder

The Cargo Coder is a mechanical device for showing numbers on a towline truck. The photo-



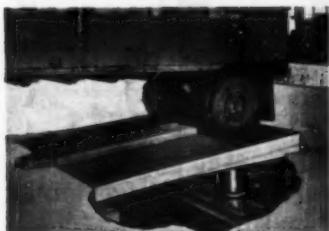
Circle No. 163 on Reader Service Card

graph shows the difference in legibility between the Coder on the right and a blackboard on the left. The numbers on the Cargo Coder can be changed quickly and easily, even by a worker wearing gloves.

*Reliance Equipment Inc.*

#### Dock Traffic Too Slow?

The Rotary Truck Leveler raises or lowers trucks to the level of the dock, meeting shippers' de-

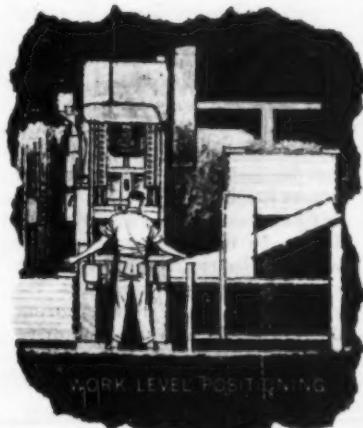


Circle No. 164 on Reader Service Card

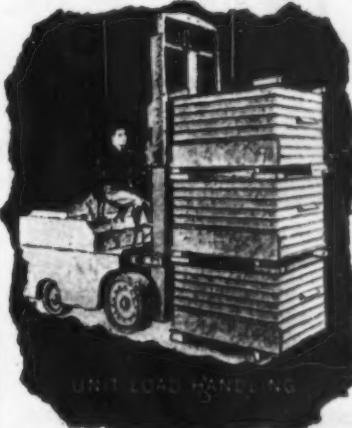
mands for faster, more efficient dock loading. It employs a non-skid steel platform set flush with the pavement in front of the dock, raising or lowering the truck's rear wheels hydraulically, to bring the truck bed to the level of the dock. This type of leveling keeps

# work-O-matic handling system

*offers you increased production  
at lower cost*



WORK LEVEL POSITIONING



UNIT LOAD HANDLING



SAFE COMPACT STORING



CONTROLLED DUMPING

Get the complete story on this cost-cutting material handling system by contacting The Union Metal Manufacturing Company, Canton 5, Ohio.

**UNION METAL**  
*Material Handling Equipment*

Circle No. 39 on Reader Service Card

**the Right Combination...**

## QUALITY



"the CHALLENGER"  
\$397<sup>50</sup> complete  
1500 lb. capacity

Model 1056—battery operated

## PRICE



"the DRUM HANDLER"  
\$890<sup>00</sup> complete  
1000 lb. capacity

Model 3862—battery operated

## SELECTION



"the TELESCOPIC 99"  
\$699<sup>00</sup> complete  
1000 lb. capacity

Model 9972T—battery operated

MORE THAN 80  
BIG JOE MODELS



Hydraulic Handling for  
EVERY Department  
**BIG JOE**  
Manufacturing Company

Surington Road  
Wisconsin Dells, Wisconsin

Circle No. 51 on Reader Service Card

## WHATS NEW IN EQUIPMENT

the angle between truck and dock at a minimum, so that there is no danger of low-clearance lift trucks hanging up. Dock area stays clear and smooth for lift truck traffic or storage. The hydraulic system is electric powered, push button controlled, 40,000 lb capacity, 28" vertical travel.

*Rotary Lift Co.*

### Conveyor Overload Control

The Tipp-Tronic safety control can be installed on existing conveyors or obtained as a component in Chainless or Cable-Way systems. It can be used on any conveyor with an electric motor drive. The control's ammeter measures the conveyor line pull by monitoring the current drawn by the drive motor or motors. The safety shut-

Circle No. 52 on Reader Service Card

## NOW

...The Easiest One-Man Drum Moving Ever!

### MORSE Model 55-0

#### DRUM CRADLE TRUCK

Low-cost and versatile, this cradle truck carries . . . rotates, . . . pushes. Has side opening for drums with side drain cocks. Long wheelbase and retractable caster frame give exceptional stability under load. For 55 and 110 gal. drums. Circle this product for literature and prices.



### MORSE Model 150-R

#### DRUM HAND TRUCK

One man can pick up a 1,000 lb. load . . . and balance it with one finger. Model 150-R features rubber tired wheels with ball bearings for quiet, easy rolling. Permits precise positioning of loaded drums. For drums 24" to 45" high and with diameters from 15". Sturdy steel construction. Circle this product for literature and prices.



Clip this ad to your letterhead



**MORSE**  
MANUFACTURING CO., INC.  
759 West Main Street, East Syracuse, N.Y.

## lite-line Mobile Yard Ramps



D  
O  
C  
K  
B  
O  
A  
R  
D  
S  
**The dock that goes to the job will cut your loading costs**

A Lite-Line Yard Ramp moves easily into position, to load or unload truck or rail car.

**SAFE • RUGGED • LIGHTWEIGHT**

For complete information write to

lite-line  
MAGNESIUM DOCK EQUIPMENT

LITE-LINE METAL INDUSTRIES  
DIVISION OF  
COPPERLOY CORP.  
P. O. BOX 8438 • CLEVELAND, O.

Circle No. 53 on Reader Service Card

**CM**  
**Lodestar®**  
electric hoist

now...  
important  
new models



**GREATER SELECTION...**from a complete range of capacities and speeds ...1/8 to 2 tons and 8 to 60 fpm.

Here's your opportunity to slash lifting and handling costs. Put these new Lodestars to work where their increased speeds and capacity match your maximum requirements.

**LODESTAR FEATURES INCLUDE:**

- Safe, Heavy Duty Performance
- Lowers Headroom
- Push Button Control
- Fully Enclosed Components
- Self-Adjusting Magnetic Brake
- Ultra-Modern Electric Braking
- CM-ALLOY Flexible Link Chain
- Minimum-Maintenance Operation
- Lifetime Lubrication

Request catalog and name of local stocking distributor.

**CHISHOLM-MOORE HOIST DIVISION**  
Columbus McKinnon Chain Corporation  
TONAWANDA, N.Y.

NEW YORK • CHICAGO • CLEVELAND

In Canada:

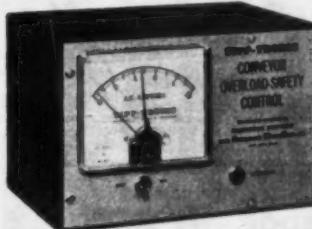
McKinnon Columbus Chain Ltd.,  
St. Catharines, Ont.

**CM**  
HOISTS

Circle No. 54 on Reader Service Card

AUTUMN 1959

off point on the ammeter is determined by operating a properly lubricated conveyor under normal load, and setting the limit pointer



Circle No. 194 on Reader Service Card

slightly above the normal reading. If the line pull exceeds this limit, the conveyor motor is shut off instantly. The control compensates for motor starting surges. Use of the safety control protects conveyors against under-lubrication, prevents damage to the conveyor or drive due to hang-ups, warns of broken or jammed trolleys, and protects drive motors.

*The American MonoRail Co.*

**Adjustable Pallet Racks**

Shelf beams are held in place in this rack without any loose parts. The racks are designed to adjust easily for stacking pallets, skids, dies, and bulk goods of varying



Circle No. 195 on Reader Service Card

heights. The racks are prefabricated of two basic parts which are available in a wide range of standard sizes. The upright frames are tied together with sturdy support beams that hook into slots in the uprights. The components are completely interchangeable and reusable. Support beams can be adjusted every 3 inches. An indentation on the shelf beams makes it possible to use boards for shelving.

*Equipment Manufacturing Inc.*

**3 TOP VALUES**  
From Among 80  
**BIG JOE**  
Lift Truck Models



**1**  
"the PEDALIFT 21"  
**\$199<sup>00</sup>** complete

1000 lb. capacity  
54 in. lifting height



**2**  
"the 299"  
**\$299<sup>00</sup>** complete

1000 lb. capacity  
57 in. lifting height  
Battery Operated



**3**  
"the CHALLENGER"  
**\$397<sup>50</sup>** complete

1500 lb. capacity  
57 in. lifting height  
Battery Operated

Hydraulic Handling for  
**EVERY Department**  
**BIG JOE**  
Manufacturing Company  
Springton Road  
Wisconsin Dells, Wisconsin

Circle No. 55 on Reader Service Card

## For any Stenciling or Marking on

Corrugated Boxes • Wood • Metal •  
Paper • Concrete • Fiber • Fabric •  
Painted • Plastered • Glass • Stone  
or any other porous or  
non-porous surface

Specify

## REYNOLDS INK

### QUICK DRYING — WATERPROOF

9 Colors—Each packaged in the handy  
easy-to-use 12 oz. Aerosol Container

Stenciling, color coding and identification marking have now become clean, quick and easy. Container sprays a dense, compact cone of specially formulated ink at the touch of a finger. Ink is very opaque. Dries in seconds. No smear, smudge or curtaining. Not to be confused with slow drying paints, lacquers and enamels. Easy to store. Always ready to use. No cans to open; no pots or brushes to load. No drying out, no waste, no mess. Saves time. Specify Reynolds,—the original, proven best ink for any marking. A trial will convince you!

## REYNOLDS INK, Inc.

4500 EUCLID AVE. • CLEVELAND 3, OHIO



GET FULL DETAILS!  
Write Today for Fully  
Descriptive Bulletin  
No. 58.



## WHAT'S NEW IN EQUIPMENT

### Big Handling System

With the Invert-A-Bin you can handle bulk material in or between plants. The bins come in 36, 65, and 88 cubic foot sizes, give users the advantage of bulk with a maxi-



Circle No. 191 on Reader Service Card

## AMERICAN "Chainless" in-the-floor conveyor tows bulky 1000 lb. loads!



Metal floor plates cover 480' conveyor, except for a narrow slot in which the tow bar travels. Personnel or vehicles can cross the assembly line without stopping production. Write for Catalog CD-B.

TOW BAR "A" is manually engaged and disengaged in trolley clevis "B". Eight-wheeled trolleys ride inside a 4-rail track. Steel rods with ball-socket joints connect trolleys.

**CONVEYOR DIVISION**  
**THE AMERICAN MONORAIL CO.**

Fourth & Franklin Streets • Tipp City 18, Ohio

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CUT YOUR  
LABELING  
COSTS  
more than  
**30%**



### POTDEVIN

#### Label

#### Paster

Time savings of 30% and more with simplified operations makes your POTDEVIN Label Paster quickly pay for itself. No adjustments required for varied shaped labels. Accurate control of adhesive minimizes waste and assures clean, neat labeling.

Available in 6", 8½", 12" and 18" widths.  
(Visit us at booth No. 726 at the PMMI Show,  
N.Y.C. — Nov. 17-20)



Circle No. 42 on Reader Service Card

mum of flexibility and a minimum capital investment. Bins can be stacked two high. Flour, sugar, salt, can be handled in these bins. They are made of either steel or aluminum. They will easily hold 6,000-pound loads, and they seal hermetically so that toxic and hygroscopic materials can be handled safely.

*The Powell Pressed Steel Co.*

### Automatic Dockboard

This free-floating, fully automatic dock board adjusts itself to rest on the truck bed. The



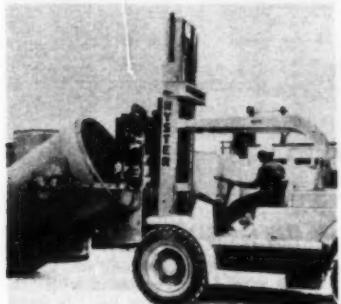
Circle No. 192 on Reader Service Card

truck sets off the dock board's automatic controls. When the operator arms are depressed by the truck, the dock board rises 16 inches, then lowers to rest on the truck bed. The dock board will support 20,000 pounds in both working and cross-traffic positions.

*Auto-Mechanical Dock Board, Inc.*

### For Pipe Handling

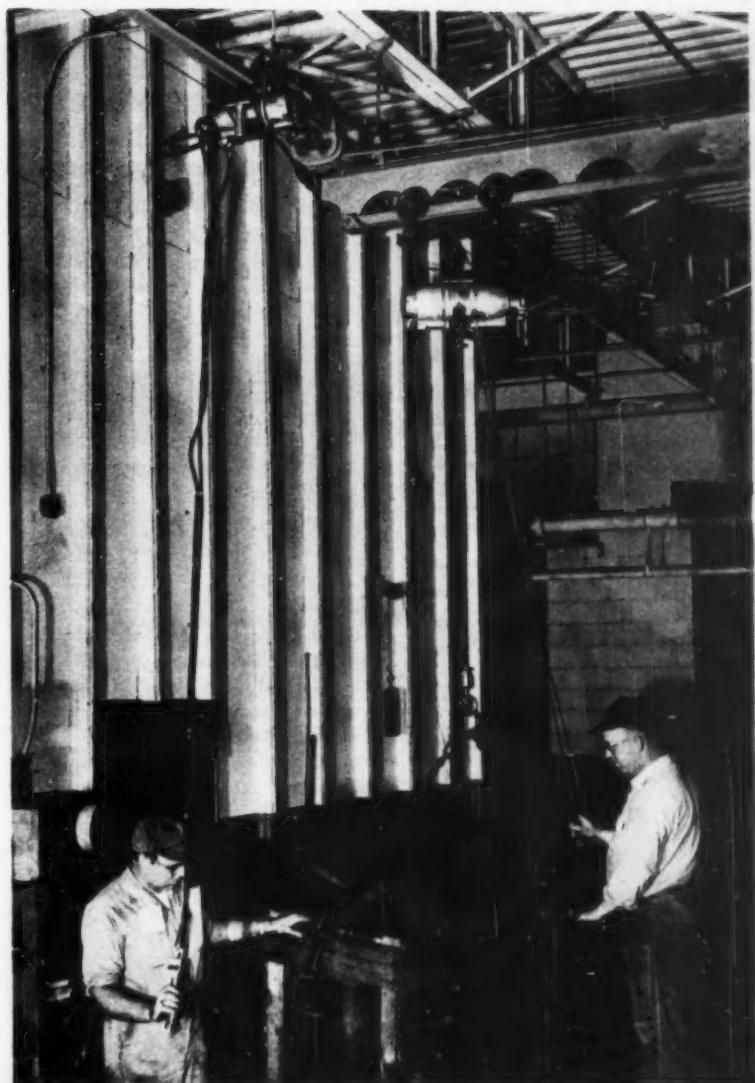
You can simplify pipe handling by the use of a Model 120 load-grab clamp equipped with slip-on swivel pads. They handle the pipe



Circle No. 190 on Reader Service Card

upright or horizontal. For handling pipe three at a time, you can remove the swivel pads and add a third arm; the three arms act as rams. The swivel pads are secured to the load arms with quick-disconnect lock pins.

*Hyster Co.*



## Two-Way Team spots loads easily, safely

Two-way team for two-way power. The man at the right lifts and moves loads of patterns along 20 feet of traveling bridge. The man at the left moves the entire load (patterns, hoist and beam) to any location within 50 feet of travel. This unusual combination of Gardner-Denver hoist and "Hoistractor" can add economical push-pull power to any materials-handling operation. Write for Bulletins 86-1 (hoists) and 87-1 (Hoistractors).

EQUIPMENT TODAY FOR THE CHALLENGE OF TOMORROW



# GARDNER DENVER

Gardner-Denver Company, Quincy, Illinois

In Canada: Gardner-Denver Company (Canada), Ltd., 14 Curity Avenue, Toronto 16, Ontario

Circle No. 43 on Reader Service Card

## Do You Have Any of These Dock Problems?



**EQUIPMENT UNDER CLEARANCE PROBLEMS?**  
—or extreme dock-to-carrier height differences. Magliner board and ramp combination solves high truck-low dock problem. Longer slope for safer loading. Prevents hang-up of low underclearance equipment. Dock board can be used independently of ramp.



**NARROW CONGESTED DOCK?** This narrow rail dock required a flared Magliner dock board, allowing power trucks to make sharp, right angle turns.



**GROUND LEVEL LOADING?** Check into a Magliner mobile loading ramp—a loading dock on wheels...where you want it...when you want it. One man moves it.

**OUTLYING YARD CARS?** No problem to load or unload directly from dock with Magliner car-in-car dock boards. Eliminates car-spotting and decurage costs.

**PLANNING A NEW PLANT?** Install Magliner Perma-Docks—the permanent magnesium dock board system. Low initial cost...economical installation...maintenance-free operation. Built-in dock loading efficiency—plus more usable dock space.

Write for Bulletin DB-204



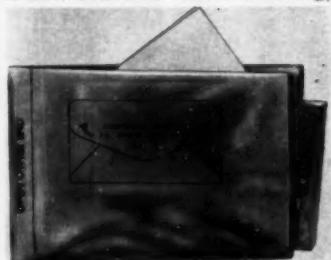
### DOCK BOARDS

Magline Inc., P. O. Box 910, Pinconning, Mich.  
Circle No. 44 on Reader Service Card

## WHAT'S NEW IN EQUIPMENT

### Padded Bag Holds 1st Class Mail Too

A padded shipping bag with a double mailer for first class letters is now available. Called Duo-Bag,



Circle No. 198 on Reader Service Card

the bag part is padded with an effective cushioning material. An overlapped back seam forms a water-resistant envelope for documents, letters, or other first class mail. You save postage, speed deliveries.

Jiffy Mfg. Co.

### Heavy Duty Trailer

Large round containers can be handled by this trailer. It has a capacity of 60,000 pounds. It has fifth wheel construction and has



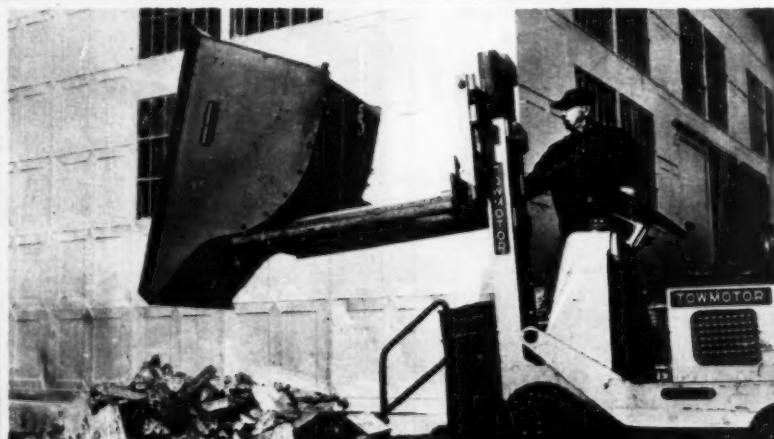
Circle No. 201 on Reader Service Card

six cast-wheels in both front and rear with pressed-on rubber tires. The trailer is built up of structural members and plate.

The Ohio Galvanizing & Manufacturing Co.

### Rider Power Sweeper

The Model 53 rider-type power sweeper travels at speeds up to five mph, cleans a path 28" wide (40" with sidebrush). Dual pedal controls eliminate hand shifting. On-the-run pickup of both heavy bulky debris and fine dust at the same time is also a feature. A high-speed 28" main brush hurls heavy



### Self-Dumping Hopper increases plant efficiency

Handling costs have been cut sharply and plant efficiency has been increased for Henning Brothers & Smith, metals refiners, Brooklyn, N. Y. Bulk materials handling is now standardized by using nine Roura Self-Dumping Hoppers—doing several different jobs throughout their plant. These maintenance-free Hoppers, attached in 3 seconds to any standard lift truck, dump aluminum

scrap into furnaces, move 400-600° zinc ingots to a storage area, and are loaded with hot brass ingots from a conveyor belt. In each job, the entire operation is handled by one man. He just flips the latch and the Hopper dumps itself, rights itself, and locks itself.

Why not let Roura Self-Dumping Hoppers cut costs and save time for you, handling hot or cold, wet or dry bulky materials.

**ROURA**  
*Self-Dumping*  
**HOPPER**



WANT MORE DETAILS? Attach this coupon to your letterhead and mail to  
**ROURA IRON WORKS, INC.**

1408 Woodland Ave., Detroit, Michigan

Circle No. 45 on Reader Service Card



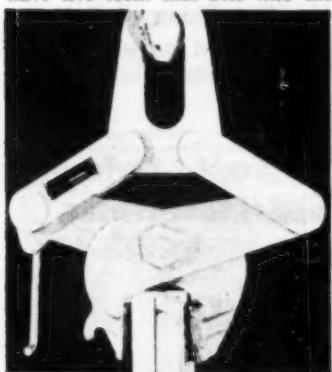
Circle No. 199 on Reader Service Card

dirt directly forward into a 4.5 cu. ft. hopper. A high volume 430 cfm fan sucks up lighter dust, forcing dirt-laden airstream through a fabric filter.

*G. H. Tenant Co.*

### Tongs for Handling Wood

Non-automatic tongs for pulling wood sheet piling and lagging have five teeth that bite into the



Circle No. 200 on Reader Service Card

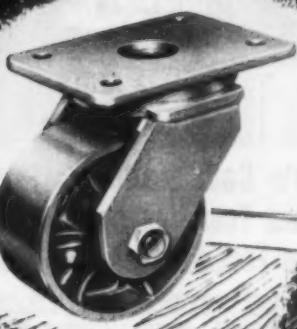
wood. Jaws are shaped to get the most surface against the pile. The tongs have a 10,000 pound capacity and a jaw opening of three inches. A link at one side holds the jaws open when the tongs are lowered over a load. When the line is slackened, the link drops out; the jaws close on the piling firmly.

*Heppenstall Co.*

### The Trick to Box Stapling

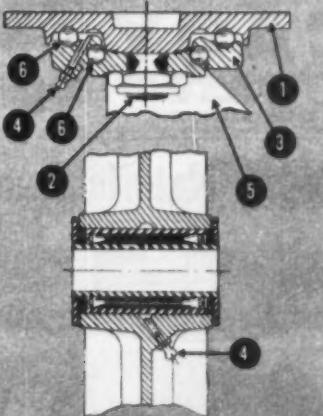
Sealing filled cases from the outside with staples is a quick and low-cost way. The Model M Clip-Top Packer closes an average shipping case for less than  $\frac{1}{4}$  cent, in a few seconds. In addition to sealing it also sets up flat

# RUGGED RELIABLE **COLSON** HEAVY-DUTY FORGEWELD **CASTERS**



Extra heavy duty forged plate casters, available in standard and heat treated styles, are designed to handle any load up to 6000 pounds. Easy wheeling under the load is guaranteed with sealed, full length straight roller wheel bearings. Lip type neoprene seals vulcanized to the bearing retaining washers assures maximum bearing lubrication at all times. These unusual construction features make the Colson Forgeweld line of casters outstanding.

1. Heavy steel forged top plate, choice of top plate for maximum adaptability.
2. Forged king bolt, integral part of top plate on heavy duty models—with self locking nut. Strengthened heat treated king bolt and nut on medium heavy duty.
3. Reinforced forged yoke base and top plate contain satin smooth and burnished bearing surfaces for swivel ease under trip load.
4. Zinc fitted for maximum lubrication and easy maintenance of all swivel and wheel bearing surfaces.
5. Heavy steel fork legs are welded strong and durable equalling the rugged forged Fork Base.
6. Neoprene sealed wheel bearings.



**Specify COLSON for your next casters...test their service, economy, and versatility for your needs.**

Over 2,000 types of precision-engineered COLSON casters are at your service...offering you near-custom fitting at mass production prices. Available are types for light, medium, heavy-duty jobs; for all floor conditions and all weight and speed requirements. Every one is designed to save you money, manpower, and time. Your COLSON representative will help you select the perfect caster for your particular need.

See him soon, or send for a free COLSON catalog.



For a FREE copy of COLSON'S Caster Catalog 101, Write to:

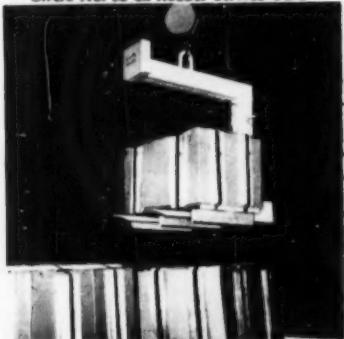
**THE COLSON CORP.**  
7 S. DEARBORN, CHICAGO, ILL.

**The Colson Corporation**

Plants in: Jonesboro, Ark., Elyria, Ohio,  
Somerville, Mass., and Toronto, Canada

Circle No. 46 on Reader Service Card

Circle No. 50 on Reader Service Card



## How Cady Pallet Lifters Make Your Hoists & Cranes Into Fork Lifts at Low Cost

You can now handle pallet and other unit loads where fork trucks are too expensive or impractical. America's foremost industries are saving thousands of dollars in first cost, packaging cost, handling costs and maintenance costs with Cady Pallet Lifters. Repeat orders are proof of savings. Counter-balanced to hang level, they reduce non-productive handling costs in plants, in yards, on docks, and on job sites. 16 standard sizes—custom models to fit special loads and conditions. Also coil and concrete pipe lifters. Write or phone Jackson 4145.

**CADY**  
METAL FABRICATING, INC.  
78 Schenck St.  
H. TONAWANDA, N. Y.



## WHAT'S NEW IN EQUIPMENT



Circle No. 202 on Reader Service Card

cartons ready for filling. Adjustable anvil staples A, B or C corrugated. Stainless steel throughout.

Container Stapling Co.

### Trucks Carry Mobile Bins

A mobile bin system has been developed to handle LTL freight in highway trucks. The bin has swivel casters, is carried as a mobile shipping container. Locking devices attach it to the side of

the truck and hold it stationary on the floor. A typical bin is 28 inches wide, 48 inches long, and



Circle No. 203 on Reader Service Card

75 inches high. It has three enclosed sides and two plywood shelves that fold, or can be removed.

Hamilton Caster & Mfg. Co.

### Handles Skids, Pallets

The BT skid and pallet handling truck is available in a 2400 or

## Reduce Material Handling Costs!



- **SAVES SPACE**—pulls flat for compact storage when not in use.
- **SAVES TIME**—sets up instantly...no staples, no tape, etc. required.
- **SAVES SHIPPING COSTS**—shipped flat for low freight rates.
- **SAVES MONEY**—costs less than 45¢ per box and they're REUSEABLE!
- **RUGGED**—double walled, corrugated construction gives extraordinary stacking strength, saving space in storage or warehousing. Double bottom will support all the weight a man can carry.

WRITE TODAY FOR PRICES ON 100 TO 5000 QUANTITIES.

THE PAIGE COMPANY  
115 EAST 72nd Street • NEW YORK 16, N.Y.

Circle No. 48 on Reader Service Card

## The Key To Fast, Safe Mechanized Material Handling At Freight Docks



■ To improve service and reduce handling costs, F. W. Woolworth uses 12 fully-adjustable ROWE hydraulic docks. Raised or lowered to the level of the truck bed, the Adjust-A-Dock cuts costs by speeding the handling of 100 truck loads of merchandise in an eight-hour shift.

The Rowe Adjust-A-Dock is a rugged, self-contained unit built for long trouble-free service and minimum maintenance.

- More than 80 standard Rowe models are available to meet your specific requirements.
- Write for our new free catalog.

ROWE METHODS, Inc.

2534-T DETROIT AVE. • CLEVELAND 13, OHIO

Circle No. 49 on Reader Service Card



MATERIAL HANDLING ILLUSTRATED

4400 pound capacity model. You can get 36, 42, or 48 inch forks that lower to  $3\frac{1}{4}$  inches and raise



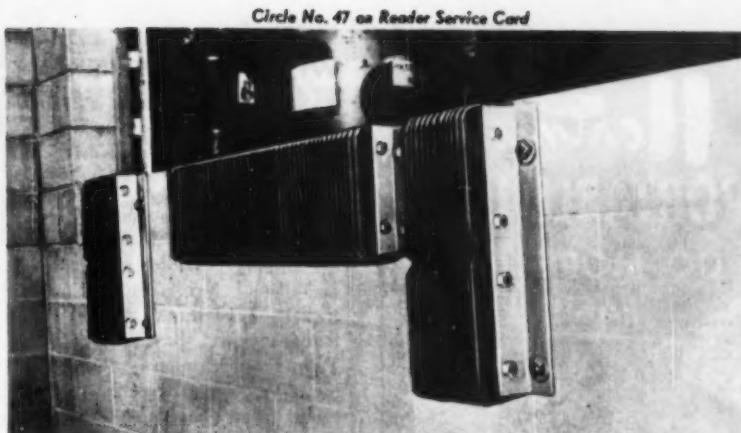
Circle No. 204 on Reader Service Card

to  $8\frac{1}{4}$  inches. Fork widths are  $20\frac{1}{2}$  and 27 inches. The wheels roll on fully encased ball bearings and pivot 90 degrees in both directions.

Industrial Handling Equipment Co., Inc.

### Save by Hauling in Bulk

Model BMC-T dry bulk materials transport can cut your handling and shipping costs for



### Durable Loading Dock Bumpers give maintenance-free dock protection

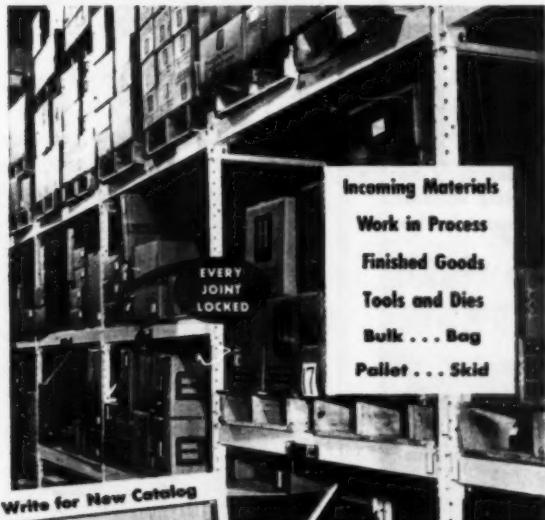
Durable's new vertically mounted loading dock bumpers minimize "up and down" friction and strain when trucks are loading or unloading. Extra bumper depth prevents timbers being torn from docks as trucks rise during unloading.

Durable Vertical Dock Bumpers combined with horizontal bumpers will assure you minimum maintenance on your loading docks. All bumpers are guaranteed for five years.

Send for complete information.

**DURABLE MAT COMPANY**  
75 N. Pleasant St., Norwalk, O. • 755 Kifer Rd., Santa Clara, Calif.

### MORE ... Storage in the Same Space with speedrack® Adjustable Storage Racks



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speedrack SAVES SPACE

Incoming Materials  
Work in Process  
Finished Goods  
Tools and Dies  
Bulk . . . Bag  
Pallet . . . Skid

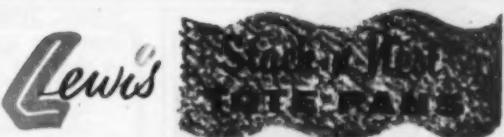
Prefabricated . . . Assemble Without Tools

**STORAGE PRODUCTS CORPORATION**

4416 Oakton St.  
Skokie, Illinois

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AUTUMN 1959



#### IN SIZES TO HANDLE EVERY PRODUCT

16 x 10 x 5  
18 x 12 x 6  
18 x 12 x 8  
22 x 14 x 8  
22 x 17 x 10\*  
27 x 16 x 11  
34 x 24 x 19  
39 x 19 x 14

\*New addition to the line.



34x24x19"

#### WITH ACCESSORIES FOR GREATEST VERSATILITY



G.B. **Lewis** COMPANY

710 Montgomery St.,  
Watertown, Wisconsin

#### PAN COVERS

Molded of Fiberglass Reinforced Polyester in colors to match pans • Snug fit — keeps out dust and dirt • "Contour offset" for safe, high stacking of covered pans • Nest when not in use • Use as trays if desired • Popular sizes — fit the 22x14x8" and 27x16x11" Stack-n-Nest pans.

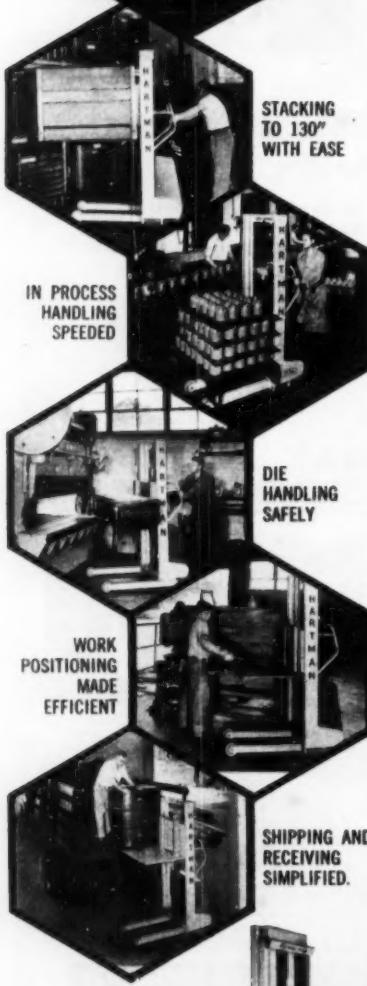
#### DOLLIES

Molded of Fiberglass Reinforced Polyester in colors to match pans • Four heavy-duty, easy-rolling swivel casters • "Contour offset" for safe, secure stacking of pans • Quick, easy multiple handling and movement — loaded or empty • Rugged construction for big pay loads • Popular sizes — fit the 22x14x8" and 27x16x11" Stack-n-Nest pans.

STACK-n-NEST PANS PATENTED  
2,823,828 2,823,829

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# Hartman PORTABLE LIFTS DO MORE JOBS EASIER!



Eliminate hand pushing with inexpensive optional  
**POWER DRIVE**



**Hartman METAL FABRICATORS**  
131 Murray Street, Rochester 6, N.Y.

Name \_\_\_\_\_  
Firm \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_

Circle No. 56 on Reader Service Card

## WHAT'S NEW IN EQUIPMENT

bulk materials. It's self-unloading, quick and easy to operate. Originally designed to handle cement, it's equally good for sugar, flour, chemicals, fertilizers, etc. The trailer has three 10-inch fill hatches with watertight covers. Twin screw discharge system unloads up to five barrels a minute. Each screw has four air pads. Simply reverse screws to dislodge lumps or prevent bridging over conveyor shields. Two-stage drive



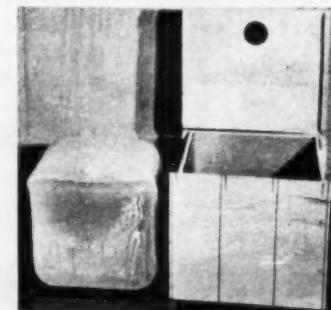
Circle No. 205 on Reader Service Card

lets you discharge the back part of the load before engaging front screws. Hydraulic power comes from the tractor power take-off, or a 25hp air-cooled engine is optional.

*Dorsey Trailers*

### Expendable Box Holds Liquids

A 15-gallon Cubitainer is now available for single trip shipment of liquids. You can use it for both

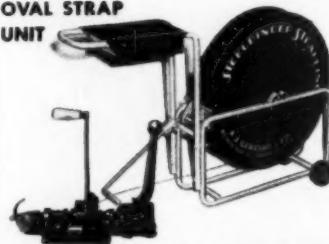


Circle No. 206 on Reader Service Card

regulated and non-regulated materials. It consists of a cube-shaped polyethylene insert and an outer wire-bound box. It's rugged, light, low-cost, and easy to handle. It has a replaceable cap closure

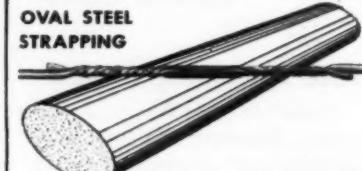
## NEW PRODUCTS

### COMBINATION OVAL STRAP UNIT



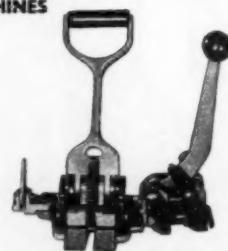
A compact unit that can cut strapping costs as much as 50% is now available. Combination includes oval strapping tool, stationary dispenser and oval steel strapping. Write: Dept. 54, A. J. Gerrard, 1964 Hawthorne Avenue, Melrose Park, Illinois.

### OVAL STEEL STRAPPING



Saves you as much as 50 to 80% on strapping cost. Oval steel strapping gives you 3 times more the lineal feet per pound with equal tensile strength, to other types of strapping. Write: Dept. 78, A. J. Gerrard, 1964 Hawthorne Avenue, Melrose Park, Illinois.

### OVAL STRAPPING MACHINES



Are available in several sizes and styles to meet practically every industrial requirement. Write: Dept. 93, A. J. Gerrard, 1964 Hawthorne Avenue, Melrose Park, Illinois.

### STRAP AND WIRE CUTTER



Dual purpose cutter—cuts oval strapping, up to  $\frac{3}{4}$ " wide flat strap, as well as 14 gauge and finer round wire. A valuable tool that quickly pays-for-itself in any receiving or shipping department. Dept. 41, A. J. Gerrard, 1964 Hawthorne Avenue, Melrose Park, Illinois.

Circle No. 58 on Reader Service Card

and can withstand 4-foot drops and vibration tests without leakage. Easily adaptable to standard filling and handling methods.

*Hedwin Corp.*

### Strong Stapling Is Easy Too

You can close filled cartons from the outside with king-size clips using the Clip-Top Packer



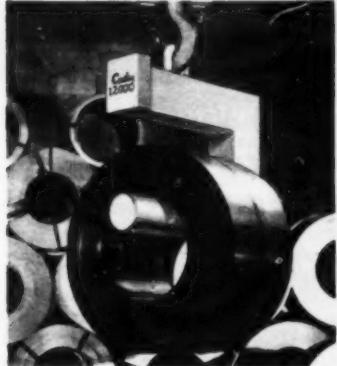
*Circle No. 207 on Reader Service Card*

Model P. It sets up empty boxes ready for packing, and seals an ordinary box in a few seconds. With only one moving part it can't jam or wear out. The diaphragm chamber needs no lubricator, has no filter or regulator. The anvil adjusts for A, B, or C flute corrugated board. Just twist the adjustor screw for board thickness.

*Container Stapling Corp.*

### Heavy Duty Handling

These coil lifters are used with cranes and hoists. A rounded arm moves into the center of the coil



*Circle No. 208 on Reader Service Card*

to support it. Rounded edges of the arm prevent damage to the coil. The coil lifters are available in standard sizes up to 40,000 pound capacities.

*Cady Metal Fabricating Co.*

*Circle No. 61 on Reader Service Card*

**A modern truck for modern plants**

**The Hydro-Electric**

**with most modern features**

- Two Drive Wheels instead of one
- Braking with handle in any position
- Four Wheel Stability instead of three
- Alloy Gear Transmission instead of chains
- 100% more Steering Ease—Greater Maneuverability
- 50% less Maintenance—Easy Accessibility
- Greater Tire Capacity—Equivalent Load Ratings



**• Write for Bulletin KN**

**A TRUCK FOR EVERY PURPOSE AND MATERIAL**



### MORSE Model 80 Barrel-Lift

Now... one man can safely handle liquid drum loads from 500 to 1,000 lbs.—raise, rotate, transport, tilt and drain 55 gal. drums. The mess, expense and hazards of spills, leaks, overflow and drum damage are eliminated. Sturdy, all steel welded construction... rubber tired wheels with ball bearings and rubber tired rear caster.



### MAN • MINUTE • MONEY SAVERS!

#### MORSE Model 85

#### Drum-Karrier

Provides complete control. Easy one-man operation. Attaches to any monorail hoist... for all double chine drums 23" in diameter, 36" in height. Positive tilt locks hold drum in vertical position for carrying... provide control of tilt for mixing or dispensing. All steel welded construction.



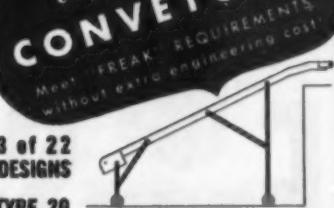
**Clip this ad to your letterhead**



**MORSE  
MANUFACTURING CO., INC.**  
750 West Main Street, East Syracuse, N.Y.

*Circle No. 59 on Reader Service Card*

### 22 MODELS COST-CUTTER CONVEYORS



#### TYPE 20

Four Wheel Mounted.  
Double Nose-Over.

#### TYPE 22

Double  
Nose-Over  
and Adjustable  
Power Feeder.

#### TYPE 18

Castor Mounted.  
Power Feeder. Double  
Nose-Over. Adjustable  
At Both End.



• Aluminum or Steel      • Electric or Gasoline  
• Belt Widths 8"-to-34"      • Lengths 4'-to-47'

**IMPORTANT** Every Cost-Cutter is Set Up and Test Run in our plant to assure Proper Performance.

**Send for BULLETIN 103**

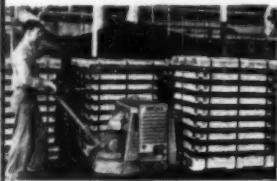
### NEW LONDON ENGINEERING CO.

TEL. 1800 • DEPT. Q • NEW LONDON, WIS.

*Circle No. 60 on Reader Service Card*

Circle No. 62 on Reader Service Card

## Get the Advantages of READY-POWER on Your Electric Industrial Trucks

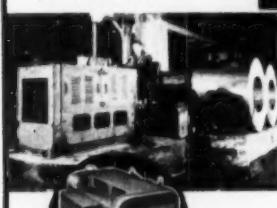


Get Live Power for Walkie Trucks. Ready-Power's bantam model "W" offers a variety of idling speeds and easy accessibility.

Work Your Fork, Platform, Tractor Trucks 'Round the Clock. Ready-Power gas-electric and LPG-electric units give continuous, full power all the time.



Take a tip from the owners of industry's biggest trucks . . . power them with Ready-Power diesel-electric for maximum stamina, dependability, and lowest operating costs.



Your Truck is No Better than its Power . . . Write for information.

**READY-POWER**

The READY-POWER Co., 3844 GRAND RIVER AVE., DETROIT 8, MICH.

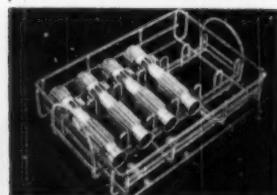
Manufacturers of Gas and Diesel Engine-Driven Generators and Air Conditioning Units; Gas and Diesel-Electric Power Units for Industrial Trucks

**PUT PARTS HANDLING ON A LOW COST BASIS**

# E E Z Y S T A K

BASKETS

You can process parts for less money than it's costing you now by using Ezy-Stak parts handling baskets! Ezy-Staks have the exclusive patented "Inter-Lok" handles for convenient, compact stacking and storage. Parts handled safely . . . less risk of damage . . . rejects reduced. Two types—compartmented baskets for segregated parts handling, open mesh type for bulk handling. May be zinc-plated, plastic or neoprene-coated.



**WRITE TODAY  
FOR BULLETIN B-57**

Wire and Iron Products Inc.  
1720 Sixteenth Street  
Detroit 16, Michigan

Circle No. 63 on Reader Service Card

What's New In

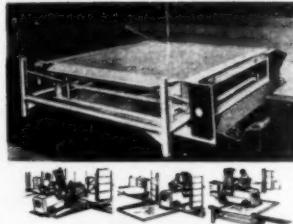
## EQUIPMENT

### Dock Ramp Takes Truck Beds Any Height

The Dockbridge Loading Ramp is a completely automatic truck-activated hinged loading ramp. It's self-contained, and can be installed in a shallow pit only 17½" deep or set on legs in front of the dock. There are no motors, hydraulics, counterweights, or counterbalances. When a truck backs against the push arms in front, the hinged ramp raises 16". It pauses there as the truck continues back, until the back of the truck contacts a set of bumpers. At this point the ramp floats down onto the truck bed and slowly comes to rest. You can use the Dockbridge on trucks from 10" below dock level to 16" above. It supports 20,000 pound axle load in any position, any direction. When not in use it's flush with the floor for cross-traffic. Three sizes available: 6'x6', 6'x8', and 6'x10'.

American Dockbridge, Inc.

Circle No. 176 on Reader Service Card



New Clark Fork Truck attachment gives . . .  
**Accurate weighing without floor scales!**

Now accurately weigh material while it's being handled by your Clark lift trucks, eliminating the need for expensive floor scales. Accuracy is guaranteed to 2/10's of 1% of rated capacity.

The new weighing attachment consists of only two major components. There are no springs or moving parts. Load positioning is not critical . . . the attachment will give accurate weight regardless of where the load is placed on the forks.

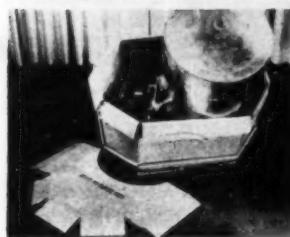
A new booklet gives full details. For your copy use the reader service card or write:

**CLARK®  
EQUIPMENT**

ATTACHMENTS SECTION  
Industrial Truck Division  
**CLARK EQUIPMENT COMPANY**  
Battle Creek 49, Michigan

Circle No. 64 on Reader Service Card

## Corrugated Box Guards Odd Shapes

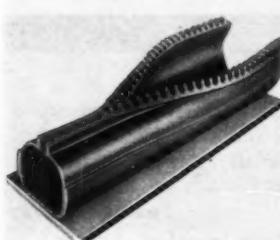


Products with unusual shapes can be shipped safely at low cost in corrugated boxes. The one shown here holds a complete house water system consisting of pump and 42-gallon tank. The die-cut top and bottom interlock with the flanged tube. Two steel straps hold them in place. The box protects the product from shock, dust, and dirt, and weighs 30 pounds less than the container used before.

*Ohio Boxboard Co.*

Circle No. 177 on Reader Service Card

## Bulk Handling Improvements



Design improvements have been made in the Zipper conveyor. This is a material carrying conduit for transporting bulk material in any plane, to considerable heights, and around obstructions. Previously the tube had been formed

### NOW CARRY A TERRIFIC LOAD WITH NO HEADACHES!

#### ... by using NU-RAIL FITTINGS

for every storage need  
no clamps, no washers, no nuts  
to assemble

This major Hawaiian liquor broker discovered Nu-Rail Slip-On fittings, and now . . . his storage headache's gone! It's so easy to construct storage racks with high-tensile aluminum Nu-Rail structural fittings because NO WELDING OR THREADING is needed. Fittings just slip over the pipe, and with one quick twist of a hex wrench the job is done!

#### no other fitting can save you . . .

- 80% on LABOR COSTS
- 30% on MATERIALS COST
- 60% on INSTALLATION TIME ...with 100% PIPE SALVAGE

Write for Bulletin #11 and find out all about NU-RAIL and the lighter duty SPEED-RAIL fittings.

**THE HOLLANDER MANUFACTURING COMPANY**  
3841 Spring Grove Ave., Cincinnati 23, Ohio • Dept. M-26



Circle No. 65 on Reader Service Card

AUTUMN 1959

5010-568

## 5 WAYS TO CUT SOLID TIRE REPLACEMENT COSTS...



and  
increase  
lift truck  
performance

#### 1 GET THE RIGHT TIRE FOR THE JOB

For efficiency and economy, always specify solids according to vehicle, loads and normal operating conditions.

#### 2 AVOID STANDING LOADS AND OVERLOADS

Flat spots cause severe vibration and separation of rubber tire from rim. Overloads result in rapid wear.

#### 3 KEEP FLOORS CLEAR OF DEBRIS

Clean traffic lanes mean savings . . . cuts and bruises from scrap are a major cause of premature tire failure.

#### 4 INSPECT TIRES DAILY

Frequent inspection and prompt removal of imbedded objects costs less than frequent tire replacement.

#### 5 SWITCH TO MONARCH SOLIDS



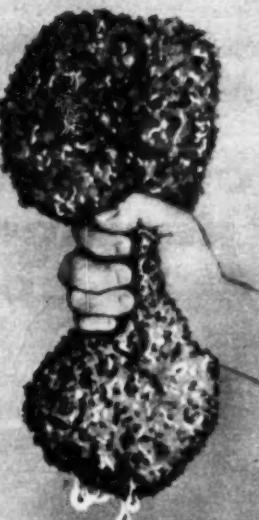
Made from Compound T-48C, the toughest natural rubber stock developed to date, MONARCH industrial solids give superior performance . . . more ton-miles per dollar invested.



- 7-255 General Motors Blvd., Detroit
- 2352 N. California Ave., Chicago
- Warehouse: Reno, Nevada

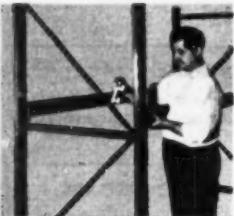
Circle No. 66 on Reader Service Card

INTECOS



More Storage Space  
From the Same Area!

## STURDI-BILT RACKS ADJUST TO FIT THE STORAGE — NO WASTE SPACE



The horizontal support bars can be spaced anywhere on 3" centers—quickly adjusted, inserted or removed—without tools.

U.S. PATENT NO. 2,740,950. 2,975,130.

Yes, you can get more storage in the same area with storage racks that utilize space to the fullest. Sturdi-Bilt racks let you plan your heights, depths and lengths of sections, adjust instantly as inventory changes, add on or alter facilities to suit your needs. You can store any type of goods—whether on pallets, skids or as bulk—without rack change.

Sturdi-Bilt Patented Flat Wedge Construction completely eliminates BOLTS, NUTS, TOOLS, ERECTION WELDING AND SPECIAL LABOR FOR ASSEMBLY OR ADJUSTMENT!



1. Just  
insert the  
"Floating Wedge" ...

2. ... into the slot  
in the prefabricated  
upright frame ...

3. ... and lock  
to the safety  
support bar.

U.S. PATENT NO. 2,740,950. 2,975,130.



STURDI-BILT

Material Handling Division  
Union Asbestos and Rubber Co.  
332 So. Michigan Ave., Chicago 4, Ill.

GET THE FACTS — WRITE OR CALL TODAY

Gentlemen:

Please send me complete details about Sturdi-Bilt Adjustable Storage Racks and how I can save time, labor and money in my material handling.

Name .....

Company .....

Address .....

City ..... State .....

Circle No. 67 on Reader Service Card

## What's New In EQUIPMENT

between two sidewalls plus a portion of the basebelt, joined together by hinges. Now the tube is formed of one piece of flat rubber with teeth along the edges.

Stephens-Adamson Mfg. Co.

Circle No. 178 on Reader Service Card

### Heavy Duty Fork Trucks

The Gerlinger H series fork lift trucks are available in 32,000 pound, 36,000 pound, and 40,000 pound capacities. The H-40, illustrated, will lift 40,000 pounds. Standard lifting heights for these trucks are from 10 to 20 feet. Torqmatic power shift transmission is standard equipment on all H series trucks. This assures a full, even flow of power under all operating conditions, says the manufacturer.

Towmotor Corp.

Circle No. 179 on Reader Service Card



### MAGLINER MOBILE LOADING RAMPS

"Before installing our Magliner Mobile Loading Ramp," reports Mr. Leonard Wood, Plant Manager, Witco Chemical Co., "it took 16 to 18 manhours to unload a railcar from ground-level, and four manhours to unload a truck. Three men were required to handle each job. Now, one man and power truck handle a truck shipment in fifteen minutes . . . a railcar shipment in four hours. We figure our Magliner Loading Ramp paid for itself in six months, besides giving us extra safety for men, loads and equipment, and reducing our lift truck maintenance."

**ASK ABOUT THE MAGLINER PROOF POSITIVE PLAN**—See a Magliner mobile loading ramp at work, cutting costs right in your own operation.

Now Available! NEW NON-SLIP  
GRATING SURFACES FOR SAFE,  
SURE TRACTION IN ANY WEATHER  
Another Magliner Exclusive!

Write for Bulletin DB-211, Magline Inc., P.O. Box 1810, Pinconning, Mich.



Circle No. 68 on Reader Service Card

## Tow Tractors Handle Transports

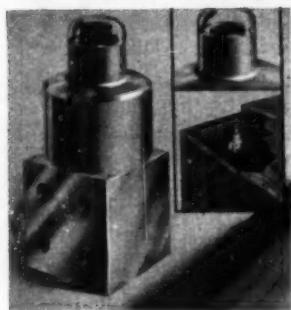


Three "Paymover" towing tractors have been designed to handle jet transports on the ground. Model T-225S has 22,500 pounds drawbar pull; Model T-245S has 24,000 pounds DBP; and T-300S has 30,000 pounds DBP. These new models have four-wheel-drive, front and/or coordinated steering, automatic transmission, and torque-converter drive. They are powered by International Harvester V-549 gasoline engines.

*Frank G. Hough Co.*

Circle No. 180 on Reader Service Card

## How to Spot Shipping Damage



If you're troubled by goods being damaged before they reach consignee, V-dot indicators can help you pinpoint the source of the damage. Put them inside the package and they tell at a glance when shock has exceeded a predetermined limit. They come in models sensitive to

## MOST ADAPTABLE HORIZONTAL CONVEYOR

HYTROL Model T is quick to set up in your assembly, sorting, packing and other applications. Available in 26 standard lengths and 5 belt widths. Completely adjustable belt speeds and stand heights. Rugged construction, job-fitted to your requirements.

Write for new Hytrol  
Complete Line Catalog.



QUI-  
DELIVE.  
Pre-engineered  
components  
speed Hytrol  
Conveyors to you.

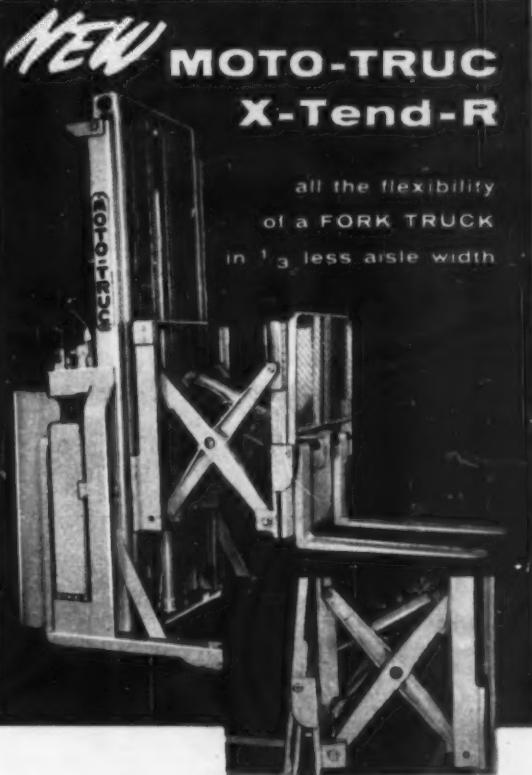
**HYTROL Conveyor Co. INC.**

1963 S. 54th Street

Milwaukee 19, Wis.

Circle No. 120 on Reader Service Card

AUTUMN 1959



Everybody is looking for a better narrow aisle stacker. Just when you think you've found one it turns out to have a limitation.

Not so with the X-Tend-R! It's a rider type truck that combines the load handling flexibility of a counterbalanced fork truck with the narrow aisle features of an outrigger truck.

The X-Tend-R can stack from a 6' aisle (depending on the load length). It will handle any load width . . . stack loads in racks . . . eliminate wasted space between loads . . . handle any kind of a skid or pallet.

There are two X-Tend-R models for 2,000 and 3,000 pound loads. They are available in telescoping and non-telescoping models with lifts to 130" — more if you need it.

## Stacking Stability with MAGIC CIRCLE STEER . . .

Your X-Tend-R will be stable as a rock even at full elevation. MAGIC CIRCLE steering provides solid four wheel support, plus turns up to 90°. There are no whipping casters to cause dangerous wobble or bucking . . . no complex steering linkage to increase maintenance or restrict turning.

Write For This Free Catalog



**The MOTO-TRUC Co.**  
1926 EAST 59th ST. • CLEVE. 3, O.

Circle No. 70 on Reader Service Card

Circle No. 71 on Reader Service Card

# 35 new models!

This complete new line of Lift Trucks has simply "outdone" all competition. They are built the sturdiest and priced lowest!! Available in battery operated or hand operated models.

\$297.00  
MODEL B

COMPLETE WITH HEAVY DUTY 12 VOLT BATTERY AND BUILT-IN CHARGER.



FREE—For complete new catalog and price list,  
WRITE DEPT. H

**CROWN CONTROLS CO., INC.**

Handy Avenue • • • New Bremen, Ohio

1500  
lb.  
cap.

## What's New In EQUIPMENT

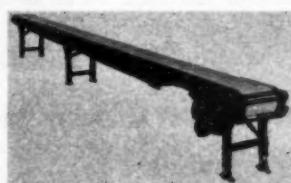
shock in any plane, or in one or two planes. They're reusable, and accurate within 5 per cent. Standard models are available from 5G to 75G sensitivity.

*Inertia Switch, Inc.*

Circle No. 181 on Reader Service Card

### Belt-On-Roller Conveyor

A simplified horizontal belt-on-roller conveyor is designed to offer flexibility of handling of items of various sizes, shapes and weights. It will easily handle bags,



bags, cans, cartons, and drums. Series 904 in this conveyor line is for light to medium duty; Series 905 is for medium to heavy duty application. The 904 is offered in three power drives— $\frac{1}{2}$ ,  $\frac{3}{4}$ , and 1 hp capacities. Belt widths are 8, 10, 14, 16, 20, and 24 inches. 905 series power drives range up to 5 hp and belt widths from 12 through 48 inches, in 6-inch increments.

*The Rapids-Standard Co., Inc.*

Circle No. 182 on Reader Service Card

## CUT HANDLING COSTS . . . STOCK MORE IN LESS SPACE

### Low-Cost Flexible Stackbin System Saves Space, Time and Labor

Stackbin®-Stackrack® Combinations are the ideal way to minimize parts, tools, materials handling. Stackbins are portable containers, so you can carry materials throughout your process without transferring contents to any other container. Stored in Stackracks, every Stackbin is instantly accessible when it's needed. You never disturb another bin. Hopper fronts on Stackbins provide visibility and accessibility to the materials. Available in 7 sizes, Stackbin-Stackrack Combinations make most efficient use of floor space. With inexpensive Adapters any small units can be stacked on larger units. Related items can be kept in one place. Individual units lock together; no tools, no setup time needed.



### WRITE FOR NEW CATALOG

All Stackbin Products Sold Direct  
**STACKBIN CORPORATION**  
1303 Main St., Pawtucket, R.I.

Mfgd. & sold in Canada exclusively by Wickware-Stackbin, Ltd., Perth.

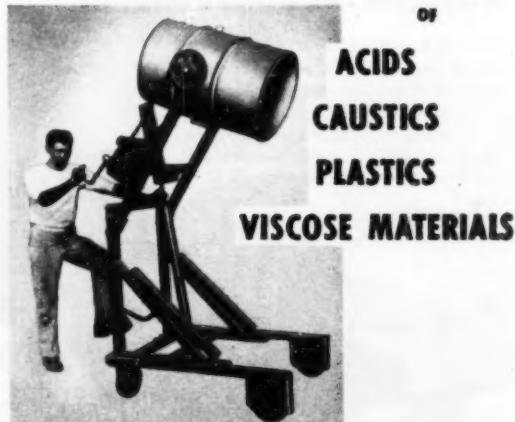
**STACKBIN**



**SYSTEM**  
Stacked and  
Still Accessible

Circle No. 72 on Reader Service Card

## CONTROLLED POURING



of

**ACIDS  
CAUSTICS  
PLASTICS  
VISCOSITY MATERIALS**

with the Model CP-1 Sterling Hydraulic Drum Lift. Be assured of self-locking and absolute control at any pouring angle.

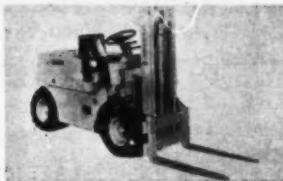
Lifting capacity 750 lbs. Lifting height 72". For complete details and specification on the CP-1 model and other model Sterling Hydraulic Drum Lifts, write: Dept. MH19

**STERLING, FLEISCHMAN COMPANY**  
P. O. BOX 88  
BROOMALL, PA.

Circle No. 73 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

## Rough Terrain Truck



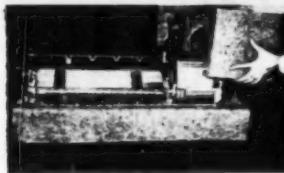
A pneumatic tire fork lift truck with a 5000 pound capacity has been added to the Clarklift line. It is designed for outdoor use over rough terrain. Named the CY-50, the

truck features a two-speed, power shift transmission with a manually controlled creeper gear. It has a turning radius of 83½ inches, power steering, and a swing-out hood for complete accessibility to the engine. The CY-50 will climb a 22.5 percent grade loaded and will travel forward or reverse at 11 mph. It will lift a capacity at 58 feet per minute and lower it at 80 feet per minute.

*Clark Equipment Co.*

Circle No. 183 on Reader Service Card

## Germ-Free Packaging Guaranteed



Sanitized Paratex cushioning is antiseptically clean and resists mold, mildew, rot, and fungus. It has a chemical bacteriostat additive. The man-

Made  
for  
each  
other



New C & D AutoReg® Silicon Chargers plug into any standard single-phase, 15-amp, 60-cycle, 110 or 220-volt convenience outlet. Wall- or battery-mounted, Astelling models charge any lead-acid storage batteries up to 660 amp-hrs.

New C & D AutoReg® silicon chargers—perfect power-mates for C & D batteries—plug right into standard electrical outlet. If the expense of rewiring has prevented you from taking advantage of modern material handling methods employing battery-electric trucks in the past . . . here's the new key to low-cost carrying efficiency for any size plant, warehouse, or shipping operation.

New C & D AutoReg® chargers—using a tiny silicon rectifier as the heart—are compact and automatic. The chargers plug into any standard electrical outlet. Simply turning on a timer places the charger in operation. You can walk away and forget it. No adjustments to make. No maintenance.

Powerful C & D Slyver-Clad® batteries—built to give extra muscle to your motorized hand trucks—are designed to give you long, dependable service. Coupled with the new, automatic C & D AutoReg charger, they represent the perfect power-mates for top efficiency in your material handling operation.



**HAVE YOU CHECKED  
THE READABILITY  
OF YOUR SHIPMENT  
ADDRESSING LATELY?**



COMPARISON OF READABILITY FROM A DISTANCE OF SIX FEET.

In this day of increased freight rates caused by freight claims due to lost shipments it's time to take a close look at your shipment addressing. Are you getting clear, readable, large letter results? If not you should be interested in better addressing through the use of machine cut stencils. Keep this in mind — regardless of how you apply your address — it must be read easily by freight handlers.

## IT'S THE RESULT THAT COUNTS

For a peek into what improper marking is costing you send for this FREE booklet of facts today. WRITE TO:

BIABRAPH-BRADLEY INDUSTRIES, INC.  
P. O. BOX 369 HERRIN, ILL.



Circle No. 74 on Reader Service Card

**C&D**  
**AutoReg®**  
**Silicon Charger**

Write for detailed information:  
Bulletin AR-100—describing new C & D AutoReg Silicon Chargers...

Bulletin IT-527—describing time-tested Slyver-Clad C & D Batteries.



Since 1906

**C & D BATTERIES, INC.**  
of Enchanted, Pa., Atlantic, Ind.

Sales and Service Offices in Principal Cities from Coast to Coast

Manufacturers of **Slyver-Clad®** Industrial Batteries

and **AutoReg®** Batteries for Communications, Control and Auxiliary Power • Producers of **Astelling®** • Silicon Chargers

\*Trademark

Circle No. 75 on Reader Service Card

## What's New In EQUIPMENT

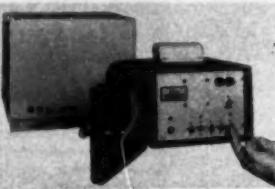
ufacturer will custom-design Parametric cushions to fit any product to assure perfect static balance in the pack. Bright green color identifies the cushioning material. It conforms with military packaging specifications. Samples on request.

*Blocksom & Co.*

Circle No. 184 on Reader Service Card

### Automatic Package Selection

The Model 410 carton selector permits automatic package selecting along a conveyor or other material flow line. By means of a 5-bar code, any one of 30 different items may be counted and sorted. The selector provides an output signal that can be used as needed: for example, to activate a conveyor switch. The selector switches may be set to recognize any carton markings as the



cartons pass by at speeds up to 180 feet per second. The code may be printed on the cartons at the same time other printing is done; no special inks are needed.

*Atronic Products, Inc.*

Circle No. 185 on Reader Service Card

### Test Your Own Packages

Here's a compression testing machine specifically designed for testing shipping containers and other packages. It has a fixed platform on which the package is placed, an upper arm connected to a crossbeam raised and lowered by two loading screws in a vertical channel, and a direct-reading dynamometer. A recorder to record compression load and deflection simultaneously is optional. The base plate takes packages up to 40 inches square. Box height can be 48, 60, or 72 inches. Dynamometers are available in 2,000, 3,000, 5,000, or 10,000 lb readings. Meets ASTM specifications.

*L. A. B. Corp.*

Circle No. 186 on Reader Service Card



**Wait a minute!**  
adding to  
your warehouse?

Has it ever occurred to you that you may have sufficient space—if you can put it to proper use?

Let PALTIER trained Materials Handling Engineers take a look. With properly selected equipment and flow of materials your present storage area may be adequate. Storage equipment COSTS LESS than NEW FLOOR SPACE!

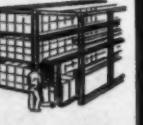
PALTIER STORAGE SYSTEMS are designed jointly by industrial architects, structural engineers and materials handling engineers.

Write today to ...

**THE PALTIER CORPORATION**



Tiering Pallet Hardware  
for standard pallets



Drive-In Racks  
for Bulk Storage



Portable Stocking Racks  
for practically every use



Adjustable and Fixed  
Pallet & Skid Racks

Circle No. 77 on Reader Service Card

52

### There's A Lot to Like in a Magliner...

**Lighter - stronger - more payload too!**

The original magnesium hand truck. With a 10-year record of proved performance.

Try it! Test it! Gear 200 models available. Write today for name of nearest dealer and Bulletin HT-101.



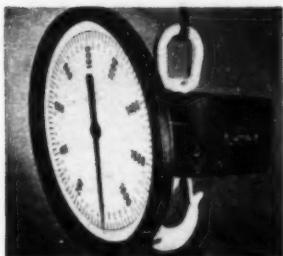
**Magliner**  
MAGNESIUM  
**HAND TRUCKS**

MAGLINE INC., P.O. BOX 2610, PINCONNING, MICHIGAN  
Canadian Factory: Magline of Canada, Ltd., Renfrew, Ontario

Circle No. 78 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

## Crane Scale Redesigned



Technical and design improvements have been made in a Sensater hydraulic crane scale. This is the SU-5 series, available in 1000 to 4000 pound capacities. It has been redesigned to meet the need for low headroom loss (13 1/4") and light weight (60 pounds). For accuracy, the scale meets the Bureau of Standards tolerance specifications. It has a five times rated capacity safety factor, a full 360-degree dial, and a 25 percent tare adjustment. The SU-5 series scales utilize the same Sensater diaphragm used in the larger SU-20 series.

Martin-Decker Corp.

Circle No. 209 on Reader Service Card

## ACKNOWLEDGEMENTS

■ MATERIAL HANDLING ILLUSTRATED is grateful to the following for information and photographs used in this issue:

Alvey Conveyor Co.; Alvey-Ferguson Co.; E. W. Buschman Co.; Elwell-Parker Electric Co.; Evans Co.; A. B. Farquhar Div.; General Box Co.; Hyster Co.; Lewis-Shepard Products, Inc.; Logan Co.; Magline Inc.; Manning, Maxwell & Moore Co.; Rapids-Standard Co.; Republic Steel Corp.; Ruger Equipment Inc.; Standard Conveyor Co.; Towmotor Corp.; Tri-State Engineering Co.; Yale & Towne Mfg. Co.

## NOW! BUY ONE TRUCK— do the job of two!

Utilizing the new Clark *Triple Stage Upright*, you can stack 30% higher . . . can also operate in exceptionally low overheads. It's like owning two machines in one.

You take advantage of the *full height* of your warehouse . . . yet, use the *same* fork truck for loading rail cars, highway trucks and low-door elevators.

A specification sheet describing the *Triple Stage Upright* in detail is available on request. Circle the reader service card, or write to the address below.

Industrial Truck  
Division  
**CLARK**  
EQUIPMENT  
COMPANY  
Battle Creek 69,  
Michigan

**CLARK**  
EQUIPMENT



Circle No. 80 on Reader Service Card

AUTUMN 1959

Technical and design improvements have been made in a Sensater hydraulic crane scale. This is the SU-5 series, available in 1000 to 4000 pound capacities. It has been redesigned to meet the need for low headroom loss (13 1/4") and light weight (60 pounds). For accuracy, the scale meets the Bureau of Standards tolerance specifications. It has a five times rated capacity safety factor, a full 360-degree dial, and a 25 percent tare adjustment. The SU-5 series scales utilize the same Sensater diaphragm used in the larger SU-20 series.

Martin-Decker Corp.

Circle No. 209 on Reader Service Card

## B&P MAGNESIUM DOCKBOARDS

EXCLUSIVE ONE PIECE CURB  
— WITH FORGED ENDS



B & P Dock Boards solved loading problem of Minnesota manufacturer.

## MORE EXCLUSIVE FEATURES LESS ACCIDENTS - WEIGHT - COSTS

STRONG  
LIGHT  
SAFE

EXCLUSIVE FEATURES

ACCIDENTS - WEIGHT - COSTS

Full length hand grips, light weight and yellow curb marking assure safe handling. The exclusive one piece curb with forged ends assure strength and longer life.

### ECONOBORD

Strong and safe for rolling loads up to 4800 pounds. Choice of surface finish: smooth, raised pattern or abrasive coated. Designed and marked for safe, fast economical loading.



Write for folder.

### HAND TRUCKS

The magnesium hand truck shown above is another fine B & P product. B & P also has a line of non-powered floor trucks of all types.



Write for literature.

**BROOKS & PERKINS, INC.**  
1922 West Fort St., Detroit 16, Michigan

**Write for NEW Folders**

Circle No. 79 on Reader Service Card

Circle No. 81 on Reader Service Card

SMOOTH...  
SWIFT...  
SAFE...  
SILENT...

## ELECTROLIFT WORM-DRIVE HOISTS

Dependable, long-lasting ElectroLift hoists are used by the thousands in America's largest manufacturing plants. Features of these units—ranging from  $\frac{1}{4}$ - to 10-ton capacity—include:

- Worm-drive design for safe, sure braking action
- Use of quality components and materials for trouble-free performance
- Fully enclosed motor and gearing for clean, quiet operation
- Greater compactness for close headroom, safer action

For details on speed, models and operation, consult your classified directory for the ElectroLift representative nearest you.



6457

204 Sargeant Avenue

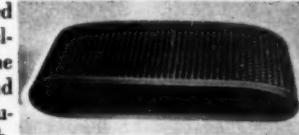
Clifton, N. J.



## What's New In **EQUIPMENT**

### Studded Belt for Sand Conditioning

A rubber-studded belt has been developed for use on the belt-type Royal Sand Conditioners. Manufacturer says it is highly flexible and abrasion resistant; it cleans itself of all bonding agents such as clay, pitch, bentonite, and cereal binders as it passes around each pulley. This flat belt conforms in width and length to standard; it has equally spaced studs, cones, trees, or treads alternately spaced and offset for greater friction and wear. It is claimed that with this belt a machine may be speeded up to an increased tonnage without slippage or excessive wear to the belt. It is used in many instances at high-speeds for carloading, piling, and separating contamination from aggregates.



National Industrial Supplies Co.

Circle No. 187 on Reader Service Card

### LOOKING FOR WAYS TO CUT COSTS?

#### CONVOY'S CHEMBOARD\* SELF-STACKING TOTE BOXES MAY BE YOUR ANSWER

Convoy Boxes are LOW COST, STRONG and LIGHT WEIGHT . . . are made in a wide range of stock sizes and shapes. They weigh and cost less than 40% of steel.

\*Chem-Board is Convoy's chemically impregnated corrugated board . . . flint-hard, rock-strong.

Here's an example of Convoy Self-Stacking Boxes speeding production, conserving space, saving money.



GET IN TOUCH WITH  
**CONVOY, INC.**  
CANTON 6, OHIO  
P. O. Station B, Box 216-Y

STANDARD AND CUSTOM-MADE NESTING STACKING AND VERTICAL-SIDED CHEM-BOARD TOTE BOXES

Circle No. 82 on Reader Service Card

Jiffy's  
durable  
cushioning  
absorbs  
shocks  
&  
impacts



JIFFY PADDED SHIPPING BAGS  
CAN TAKE IT! The resilient cushioning returns gently after each impact—never flattens out.

The outer liner of all standard Jiffy Bags is made of 70 lb. CLUPAK paper, the kraft with built-in stretch. Its extra toughness makes Jiffy Bags twice as strong as bags made with ordinary kraft.

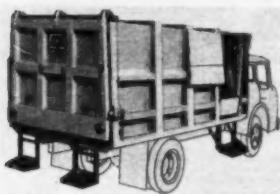
Test the very best.  
Write today for your free samples.

**Jiffy**  
MANUFACTURING COMPANY  
HILLSIDE NEW JERSEY



Circle No. 84 on Reader Service Card

## Refuse Collector



The Hydro E-Z Pack is a front-loading refuse disposal body. A blade mounted on a telescoping hydraulic cylinder pushes the collected material into a baled mass at the rear. The same blade unloads the body, eliminating the need to raise it to dump. Large openings on both side and top of the body will accept bulky items.

Hercules Galion Products, Inc.

Circle No. 188 on Reader Service Card

## 500-Pound Tractor Shovel



says the H-50 will have more power.

The Frank G. Hough Co.

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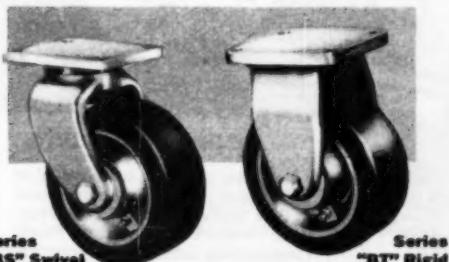
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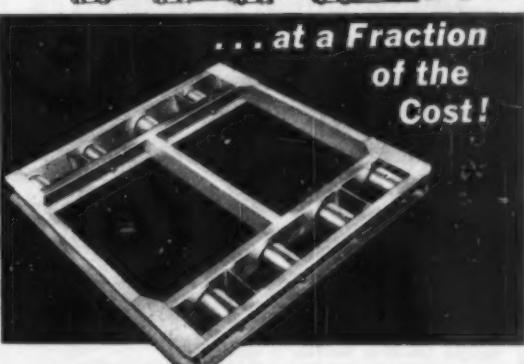
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